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Longbai Group Co., Ltd. **2024**

Corporate Social Responsibility Report

April 22 , 2025

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I. Introduction to the Report

1. This report is made by Longbai Group Co., Ltd. (hereinafter referred to as "the Company", "our Company" or "Longbai Group").

This is the eleventh corporate social responsibility report released publicly by Bai Group. The time span of this report is [missing information].

From January 1, 2024 to December 31, 2024, taking into account the continuity and comparability of the disclosed information, the Ministry...

The content should be appropriately extended forward and backward.

2. This report is based on the "Shenzhen Stock Exchange Stock Listing Rules" promulgated by the Shenzhen Stock Exchange.

Seeking a compilation of documents covering the company and its wholly-owned (holding) subsidiaries.

3. The stakeholders in this report include: shareholders and creditors, company employees, customers, partners,

Community, environment, etc.

4. This report was reviewed and approved at the 18th meeting of the 8th Board of Directors.

5. This report truthfully and objectively reflects the company's active fulfillment of its social responsibilities in its business operations and management activities in 2024.

This report outlines the company's responsibilities. We hope this report will strengthen communication and exchange between the company and various sectors of society, enabling all sectors to better understand and address these issues.

A better understanding of the company allows it to gain wider oversight from all sectors of society, thus promoting its continuous development.

6. This report references the Global Reporting Initiative (GRI) guidelines on sustainable development.

Exhibition Guide 4.0 (G4), ISO 26000 Social Responsibility International Standard

Guidelines, the Ten Principles of the UN Global Compact, and Guidelines for Writing Corporate Social Responsibility Reports in China

(CASS-CSR3.0)

7. The selection of the scope of this report follows the principles of GRI: substance, stakeholder participation, and sustainability.

The exhibition background and adherence to the principle of completeness, combined with the company's actual situation, include industry benchmarking research, corporate development strategy analysis,

Identify key accountability issues and communicate with stakeholders to determine the specific content of the report.

Regarding the selection of disclosure indicators, this report primarily considers various specific indicators related to the performance of key issues.

The relevance, substance, and availability of the target. The indicators used are highly relevant to the main issues of social responsibility.

It can effectively reflect the company's performance on the relevant issues, and at the same time, it can be improved through the existing management system.

We will collect data on this. As Longbai Group further improves its social responsibility management, we will include this information in future reports.

Optimize and improve disclosure indicators gradually.

Unless otherwise specified, all currencies mentioned in this report are Renminbi (RMB).

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II. Chairman's Address



Group Chairman and Benliu

2024 was a year of steady progress and innovative development for Longbai Group, and also a year of comprehensive deepening.

This is a pivotal year for management reform and promoting high-quality enterprise development. In this year, we closely followed...

Guided by national policies, adhering to innovation-driven development, and upholding the principles of "innovation, coordination, green development, openness, and shared prosperity,"

Adhering to the development philosophy of "enjoyment," the company has continuously enhanced its competitiveness and achieved a new leap in business development.

The past year has been a year of deepening and implementing Longbai Group's strategic plan. We have clearly defined the company's...

Its development direction and goals emphasize innovation-driven development, market expansion, production management, and technological innovation.

Strategic deployments in areas such as [unspecified areas]. Remarkable achievements have been made in business development. Facing [unspecified challenges]...

In the face of a complex and ever-changing market environment, we flexibly adjust production plans and optimize marketing strategies to ensure the stability of our core business.

Healthy growth. Particularly in titanium dioxide production and sales, we achieved record highs, with stable production and sales volumes.

The company achieved significant growth, earning recognition as one of the "Top **100** Growing Listed Companies in China " and one of the "Top **100** Innovative Large Enterprises in China ."

Honors such as **"2024** Hurun China **500** ".

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Over the past year, the proportion of R&D intensity has been steadily increasing, thanks to continuously increasing R&D investment.

We will promote the development of new processes and products to reduce costs and increase efficiency for enterprises. On key projects, we...

Overcoming numerous challenges, the second phase of the " **30,000-** ton-per-year rotor-grade sponge titanium project" was successfully completed with molten salt chlorination.

The construction and commissioning of several key projects have injected strong momentum into the sustainable development of Longbai Group.

In terms of management reform, we have been pioneering and innovative, implementing a series of highly efficient measures.

Management reform measures, deepening strategic planning, organizational structure, and human resource management.

Adjustments were made by implementing a "one profit, five rates" performance evaluation model, strategic procurement, and integrated business and financial resources.

Through measures such as sharing strategies, cost savings and efficiency improvements have been successfully achieved, contributing to the group's lean management.

Digital management has injected new vitality.

Over the past year, Longbai has actively fulfilled its mission of "Creating a Beautiful Titanium Life and Becoming a Respected Enterprise."

Guided by the concept of green development, we continuously strengthen our environmental management system and expand our industrial scale.

Significant progress has been made in expansion and high-quality green development. Comprehensive and in-depth reforms have been implemented in the environmental protection sector.

Significant achievements have been made in upgrading and transforming the company, particularly in the treatment and recycling of waste gas, wastewater, and solid waste. The company is a nationally certified environmentally friendly enterprise.

The group's subsidiaries were selected as the first batch of "zero-carbon" and "super-energy-efficiency" factories in Henan Province, and many others...

Our company has been recognized as a national and provincial green factory. We highly value the occupational health of our employees and strive to achieve...

Employee occupational health checkups are fully covered, and many companies have been awarded the title of provincial-level healthy enterprise.

Over the past year, we have thoroughly implemented the General Secretary's instructions on consolidating and expanding the achievements in poverty alleviation and rural revitalization.

The important discourse on the effective connection between rural revitalization and industrial development demonstrates a firm belief in serving the country through industry and a courageous commitment to social responsibility.

The focus is on supporting local industrial development, rural revitalization, village-enterprise cooperation, child development and care, and rural revitalization.

Projects such as improving village education continue to consolidate the great achievements of the poverty alleviation campaign and inject vitality into rural revitalization.

This will provide strong impetus and continuously enhance the people's sense of happiness and fulfillment.

Looking back, we have persevered through trials and tribulations, constantly moving forward amidst challenges; looking ahead, the road ahead...

Brightness and hope abound. In the new year, we will continue to uphold the spirit of General Secretary Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era.

Guided by the ideology of Marxism, we will strengthen the driving force of scientific and technological innovation to develop new productive forces and actively fulfill our broader responsibilities.

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Broad social responsibility, contributing Longbai's strength to the advancement of Chinese-style modernization, and striving to write a new chapter for Longbai Group.

A brighter tomorrow!

III. Group Overview

(I) Company Profile

Longbai Group is a large industrial group dedicated to the research, development, manufacturing, and industrial integration of new materials. (Shenzhen Stock Exchange)

A listed company (stock code: 002601). Adhering to the mission of "Creating a Beautiful Titanium Lifestyle and Becoming a Respected Enterprise,"

With 70 years of experience in the industry, the company is committed to building a "135" development pattern, namely: 1. Innovative construction of Longbai's green new...

A high-quality development system for the materials industry; 3 chains: building three advantageous industrial chains in titanium, zirconium, and new energy, and exploring production...

Unlocking the potential for industry-wide synergy and practicing the principles of green development; 5 poles: "Capital acquisitions + project innovation" dual-engine drive.

Developing titanium dioxide powder materials, titanium metal materials, zirconium materials, new energy materials, and rare and dispersed element materials (vanadium, scandium, etc.)

Five major new materials products, including hafnium dioxide, are driving business growth. The company's main business includes titanium dioxide production capacity of 1.51 million tons/year and sponge titanium production capacity.

With an annual capacity of 80,000 tons, it ranks first globally in two categories. Its lithium-ion battery cathode material iron phosphate production capacity ranks among the top five in China.

The group has nearly 20,000 employees and total assets of 66.2 billion yuan.

In 2024, the company achieved total operating revenue of 27.56 billion yuan, net profit attributable to the parent company of 2.169 billion yuan, and paid taxes...

The group's revenue reached 2.517 billion yuan. It was ranked among the top 500 private enterprises in China (491st in total).

Ranked 391st among China's Top 500 Manufacturing Enterprises, Ranked 39th among China's Top 100 Fine Chemical Enterprises, and so on.

Top 100 Innovative Enterprises in China (70th), Top 500 Petrochemical Enterprises in China (82nd), Listed Companies in China

Ranked among the Top 100 Growing Enterprises, Top 500 Private Manufacturing Enterprises in China (328th), and Top 50 Metallurgical and Mining Enterprises in China.

List. Awarded the "Golden Quality" Sustainable Growth Award for Listed Companies, the "Golden Bull Award" for Listed Companies, and AAA-level Enterprise.

Credit rating and other honors. It has received an A-level rating for information disclosure four times consecutively. The "Snow Lotus" trademark has been recognized as a well-known trademark in China.

In 2024, the Group invested RMB 1.175 billion in R&D, and its cumulative R&D investment over the past three years has exceeded RMB 3 billion.

It has 22 affiliated high-tech enterprises. One person has been awarded the title of National Leading Talent in Science and Technology Entrepreneurship and Special Allowance by the State Council.

Two individuals were selected for the "Ten Thousand Talents Program for Leading Talents in Science and Technology Entrepreneurship" by the Organization Department of the CPC Central Committee; two were included in the Ministry of Industry and Information Technology's Manufacturing Talent Program.

It is a national technology innovation demonstration enterprise, a national CNAS accredited laboratory, a nationally recognized enterprise technology center, and a nationally recognized enterprise technology center.

National high-tech enterprise, national demonstration base for comprehensive utilization of mineral resources, and national postdoctoral research station.

Typical cases of green development enterprises, national-level green mines, national-level smart factories, and enterprises with national intellectual property advantages.

Enterprises, Henan Provincial Titanium Materials Industry Innovation Center, Henan Provincial Titanium-Based New Materials Industry Research Institute, Henan Provincial Academicians

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The workstation, jointly established by the group and Longbai Sichuan Titanium Industry Co., Ltd., was awarded the title of National Green Factory. A comprehensive high-end [system/mechanism] has been constructed.

The manufacturing innovation system possesses 1276 valid patents, including 416 invention patents and utility model patents.

860 patent applications, including 7 international applications. 34 provincial/ministerial level achievement evaluations, 1 China Patent Award, and 1 provincial/ministerial level patent award.

Four science and technology awards. 31 provincial and ministerial-level science and technology progress awards, including five first-class awards and over ten second-class awards.

He has participated in the drafting of more than 60 standards, including 27 national standards, 26 industry standards, and 9 group standards.

2025 will be the final year of the Group's 14th Five-Year Plan. The Group will continue to focus on its established strategic plan.

Focusing on core business and adapting to global trends, we will increase the production of titanium dioxide produced through the chloride process, upgrade our products to the mid-to-high-end market, and strive to become...

A pioneer in the structural transformation of China's titanium dioxide industry. Simultaneously, firmly rooted in new materials and new energy, continuously optimizing production...

Adjusting industrial structure and layout, appropriately extending and supplementing the industrial chain, promoting green and high-quality industrial development, and moving towards "Excellence Longbai · Full..."

We are striving forward toward the vision of "Longbai, a century-old company".

(II) Corporate Culture

Our mission is to create a beautiful life with titanium and to be a respected company.

Corporate Vision: Outstanding Longbai, Global Longbai, Centennial Longbai.

Corporate mission and responsibility create a better future; integrity builds the future.

Our corporate spirit is pragmatic: based on facts, speaking the truth, doing practical things, and emphasizing effectiveness.

Unity: Be responsible and self-disciplined, work together, and put the collective first.

Strive: persevere through hardship, never give up, and dare to win.

Innovation: Diligent in learning and asking questions, pioneering spirit, and pursuit of perfection.

Dedication: Being willing to give, help others, and suffer losses.

The company's work style is pragmatic and thorough; it is decisive and responsible.

Be rigorous and orderly, respect science; communicate frankly and support each other.

(III) Group's Key Events in 2024

Corporate Honors

1. In 2024, the company successively won the titles of "Top 100 Innovative Large Enterprises in China" and "Top 500 Private Enterprises in China".

"Top 500 Chinese Manufacturing Enterprises", "Top 500 Private Enterprises in R&D Investment in 2024", "Invention Patents"

"Top 500", "National Model Workers' Home", "Top 50 Chinese Metallurgical Mining Enterprises", "Eighth Metallurgical Mining Enterprise Top Ten"

It has received more than 40 provincial-level or above honors, including "Excellent Factory and Mine" and "2023 Henan Socially Responsible Enterprise".

2. In September, the subsidiary Henan Longbai New Material Technology Co., Ltd. won the 2024 National Lithium Iron Phosphate Industry New...

Sharp Award.

3. In December, the company was included by the Henan Provincial Department of Culture and Tourism in the list of national industrial tourism demonstration bases for 2024.

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The list of educational institutions was compiled, making it one of only 13 institutions in Henan Province to receive this honor in 2024.

Management Innovation

4. In 2024, the Group implemented strategic planning, organizational structure, and human resource management reforms, and promoted the General Manager...

The company adopted a management responsibility system and a "one profit, five rates" performance evaluation model, and established a titanium dioxide plastics business unit and a digital center in August. Through...

Strategic procurement, leveraging resource sharing and optimized allocation to achieve economies of scale, resulted in cost reductions and efficiency gains of 375 million yuan throughout the year.

The integrated reform of the company's business and finance departments has achieved new results, including improvements in budget management, cost management, sales analysis, procurement analysis, and internal management.

The entire transaction and SAP-ERP digitalization project was fully launched, and an internal SAP operations and maintenance expert team was established to further...

This will further enhance the accuracy of the company's planning and decision-making, and elevate the group's lean and digital management to a new level.

5. In March, the subsidiary Yunnan Guotai's "Phase II Molten Salt Chlorination Project for an Annual Production of 30,000 Tons of Rotor-Grade Sponge Titanium" was completed.

The demonstration project was put into operation; in May, the ultrafine titanium concentrate oxidation roasting system of Longbai Sichuan Mining and Metallurgy Chlorinated Titanium Slag Plant was put into operation.

The project was completed and put into operation; in the same month, the comprehensive land consolidation project of the Jiaozuo base was successfully implemented.



6. In May, the company held a ceremony to mark the fifth anniversary of its establishment in Yunnan and to celebrate Guotai's achievement of reaching its annual production target of 80,000 tons of sponge titanium.

A series of activities will usher in a new chapter in the development of the sponge titanium industry.

In July and October, the subsidiary Longbai Sichuan Mining and Metallurgy upgraded and converted 500,000 tons of Panzhihua titanium concentrate into titanium chloride slag.

The second phase of the "CXTZ Furnace Upgrade and Renovation Project" has been fully completed. After stable operation, the production of titanium chloride slag has increased.

With a capacity of 300,000 tons/year, it will become a leading titanium chloride slag production base in China.

Scientific and technological achievements

8. In May, the subsidiary Henan Baili New Energy participated in the implementation of the "Titanium Dioxide Waste Based on Energy Saving, Carbon Reduction and Pollution Reduction" project.

The project "Innovation and Application of Integrated Technologies for Waste Resource Utilization" won the first prize of the Science and Technology Progress Award from the All-China Environment Federation.

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Award. In November, the subsidiary Gansu Guotai's "Intelligent Manufacturing Industrialization of Aerospace-Grade Sponge Titanium" scientific and technological achievement won the 2024 Award.

The Group received the First Prize for Science and Technology Innovation in the Nonferrous Metals Industry. Simultaneously, the Group also received the "Key Technology Development for Green Preparation and Synthesis of Rutile".

The "Industrialization and Development of Chlorinated Paper" project won the second prize of the Science and Technology Progress Award from the Chinese Chemical Society; in December, the group's "Chlorinated Lamination Paper" project...

The project "Key Technologies and Industrialization of High-Grade Titanium Dioxide Production" won the third prize of Science and Technology Progress Award from the China Petroleum and Chemical Industry Federation.

9. In June, the subsidiary Longbai Sichuan Mining and Metallurgy Company's "Research on Key Technologies for Cobalt-Rich Sulfur Extraction from Cobalt Sulfate Concentrate" project

A new breakthrough has been achieved in industrial trials, successfully solving the problem of efficient recovery of associated cobalt and nickel resources from vanadium-titanium magnetite deposits in the Panxi region.

A challenge. In July, the subsidiary, Panzhihua Baifengyuan Mining Co., Ltd., developed "domestically leading magnetic separator technology".

The project has been successfully applied in production practice, yielding considerable economic benefits.

10. In August, the subsidiary Henan Baili New Energy Materials Co., Ltd. announced the "Preparation of Power Electric Vehicles Based on Titanium-Lithium Coupling".

The project "Technical Research and Application of Ferric Phosphate for Pools" has been included in the Henan Provincial Major Science and Technology Project.

In November and December, the subsidiary Henan Baili New Energy Testing Center was recognized as a national CNAS laboratory.

This lays a solid foundation for the company to further improve product quality and expand domestic and international markets.

12. In 2024, the Group participated in the formulation and compilation of the "Energy Consumption Limits per Unit Product of Titanium Dioxide and Iron Oxide Pigments".

The two national standards, "Comprehensive Utilization Technical Specifications for Titanium Gypsum" and "Comprehensive Utilization Technical Specifications for Titanium Gypsum," are proposed to be implemented on May 1, 2025, respectively.

It will officially take effect on June 1st; at the same time, it participated in the formulation and compilation of the "Methods for the Disposal of Ilmenite Acidolysis Waste Residue" and "Regenerated Phosphorus".

Industry standards such as "Iron Ore" and "Evaluation Requirements for Green Factories in Iron Ore Mining and Processing" and "Lithium-ion Battery Production Life Cycle"

Group standards such as "Evaluation Technical Specifications", "High-purity Titanium Dioxide for Electronic Industry", and "Sulfur-Cobalt-Nickel Concentrate" are included.

Platform construction

13. In June, the company was designated as a "grassroots legislative liaison point of the 14th Henan Provincial People's Congress Standing Committee".

14. In November, Longbai Lithium Energy Research Institute and Jiaozuo New Materials Vocational College officially signed a school-enterprise joint cooperation agreement.

The proposal aims to achieve "customized" talent development, providing a stable and high-quality talent pool for the company's sustainable development. In the same month,

The company signed an agreement with Beijing University of Chemical Technology to establish an off-campus practical teaching base, jointly promoting the deep integration of education and industry.

This collaboration provides a practical training platform for cultivating high-quality, application-oriented talents.

Cooperation and exchange

15. In March, the Group hosted the China International Coatings Conference; in April, it organized the Titanium Dioxide Industry Technology Innovation Strategy Conference.

The second council of the Strategic Alliance; in September, the National-Local Joint Project on the Application Technology of Nano-Hybrid Materials with Henan University was held.

The Engineering Research Center co-hosted the "New Materials, New Momentum, New Future" New Materials Industry Development Seminar; in November,

Co-organizer of the 2024 National Conference on Plastic Coloring and Masterbatch Academic, Technical and Trade Information Exchange and the 31st China Color...

Masterbatch Industry Annual Meeting; December, co-organizer of the 2024 China Titanium Dioxide Industry Annual Meeting.

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16. In August, the Group signed a strategic cooperation framework agreement with Sichuan Provincial Natural Resources Investment Group, marking...

Both parties will cooperate in areas such as vanadium-titanium magnetite mining, processing, sales and trade, downstream industry chain equity, and scientific and technological research and development.

To deepen cooperation and build a virtuous cycle from vanadium-titanium magnetite mining and washing to deep processing and comprehensive utilization.

A new pattern of common development.

(iv) Corporate Honors and Patent Achievements in 2024

1. Honors of the Group and its subsidiaries

Serial Number	Award Name	Award-winning units	Awarding organization
1	2024 Top 500 Chinese Private Enterprises (Ranked 491st) 2024	Longbai Group Co., Ltd.	All-China Federation of Industry and Commerce
2	Top 500 Chinese Manufacturing Enterprises (Ranked 391st) 2024 Top	Longbai Group Co., Ltd.	China Enterprise Confederation, China Enterprise Directors Association
3	500 Chinese Private Manufacturing Enterprises (Ranked 328th) 2023 Top	Longbai Group Co., Ltd.	All-China Federation of Industry and Commerce
4	500 Private Enterprises in R&D Investment (Ranked 184th) 2023	Longbai Group Co., Ltd.	All-China Federation of Industry and Commerce
5	Top 500 Private Enterprises in Invention Patents (Ranked 275th)	Longbai Group Co., Ltd.	All-China Federation of Industry and Commerce
6	2023 Outstanding Cases of Corporate Social Responsibility of Chinese Private Enterprises	Longbai Group Co., Ltd.	All-China Federation of Industry and Commerce

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7. Longbai Group Co., Ltd., a National Environmentally Friendly Enterprise Certification			Zhonghuan Lianxing (Beijing) Certification Center
8	2024 Outstanding Cases of Coordinated Efficiency Improvement in Water Environment Governance,	Longbai Group Co., Ltd. (Water Recycling in Chlorination Process Titanium Dioxide Production)	China Environmental Protection Federation
9	Pollution Reduction, Carbon Reduction, and Overall Improvement; 2024 Top 100 Private	Longbai Group Co., Ltd.	China Petroleum and Chemical Industry Federation
10	Petroleum and Chemical Enterprises in China (Sales Revenue); 2024 Top 500 Petroleum and	Longbai Group Co., Ltd.	China Chemical Enterprise Management Association
11	Chemical Enterprises by Sales Revenue (Ranked 82nd); 2024 Top 100	Longbai Group Co., Ltd.	China Enterprise Confederation, China Enterprise Directors Association
12	Innovative Large Enterprises in China (Ranked 70th); 2024 Top 100 High-Growth	Longbai Group Co., Ltd.	Henan Provincial Enterprise Confederation, Henan Provincial Entrepreneurs
13	Enterprises in Henan Province (Ranked 93rd); 2024 Top 100	Longbai Group Co., Ltd.	Association Henan Provincial Enterprise Confederation, Henan Provincial Entrepreneurs
14	Enterprises in Henan Province (Ranked 28th); 2024 Top 100 Manufacturing	Longbai Group Co., Ltd.	Association Henan Provincial Enterprise Confederation, Henan Provincial Entrepreneurs Association
15	Enterprises in Henan Province (Ranked 17th); 2024 Top 100 Private	Longbai Group Co., Ltd.	Henan Provincial Federation of Industry and Commerce
16	Enterprises in Henan Province (Ranked 12th); Case Studies of China's Integrity Building Practices.	Longbai Group Co., Ltd.	Henan Provincial Federation of Enterprises/Henan Provincial Entrepreneurs Association
17 Green Factories in Henan Province		Longbai Group Co., Ltd.	Henan Provincial Department of Industry and Information Technology
18	Henan Provincial Engineering Technology Research Center for Titanium	Longbai Group Co., Ltd.	Henan Provincial Department of Culture and Tourism
19	Chloride Dioxide, a National Industrial Tourism Demonstration Base Cultivation Enterprise	Longbai Group Co., Ltd.	Henan Provincial Department of Science and Technology
20. Henan Innovation Consortium Longbai Group Co., Ltd.			Henan Provincial Department of Science and Technology
21 2023 Henan Longbai Group Co., Ltd. - A Socially Responsible Enterprise			Henan Daily, State-owned Assets Supervision and Administration Commission of Henan Provincial People's Government, Department of Industry and
twenty two	2023 Henan Outstanding Cases of Corporate Social Responsibility	Longbai Group Co., Ltd.	Information Technology of Henan Province, Henan Academy of Social Sciences, China Association for Science and Technology, Ministry of Science and
twenty three	Third Prize in the 2024 China Innovation Methodology Competition Finals	Longbai Group Co., Ltd.	Technology, Tianjin Municipal Government

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twenty four	First Prize, Henan Division, 2024 China Innovation Methodology	Longbai Group Co., Ltd.	Henan Provincial Association for Science and Technology, Henan Provincial Department of
25	Competition; Second Prize, Henan Division, 2024 China Innovation Methodology	Longbai Group Co., Ltd.	Science and Technology, Henan Provincial Association for Science and Technology, Henan
26	Competition; Third Prize, Henan Division, 2024 China Innovation Methodology	Longbai Group Co., Ltd.	Provincial Department of Science and Technology, Henan Provincial Association for Science and Technology
27	Competition; Second Prize, 2nd "Zero Carbon Central Plains Cup" Henan Green Manufacturing Technology Application Innovation Competition, 2024.	Longbai Group Co., Ltd.	Henan Provincial Department of Industry and Information Technology
28	2023 Longbai Group Co., Ltd. Advanced Unit in News and Publicity		China Chemical Industry News
29	Third Prize, 2024 Second "Zero-Carbon Central Plains Cup" Henan Province Green Manufacturing Technology Application and Innovation	Longbai Group Co., Ltd.	Henan Provincial Department of Industry and Information Technology
30	Competition; 2024 Henan Province Grassroots Trade Union Standardization Construction Project	Trade Union Committee of Longbai Group Co., Ltd.	Jiaozuo Municipal Federation of Trade Unions
31	Jiaozuo City Industrial Workforce Reform Project in 2024	Trade Union Committee of Longbai Group Co., Ltd.	Jiaozuo Municipal Federation of Trade Unions
32	Labor protection law-abiding and trustworthy Class A enterprise	Longbai Group Co., Ltd.	Jiaozuo Municipal Human Resources and Social Security Bureau
33	Advanced Unit in Talent Service Work in 2024	Longbai Group Co., Ltd.	Jiaozuo City Talent Exchange Center
34	Advanced Enterprises in Occupational Health Work in the City in 2023	Longbai Group Co., Ltd.	Jiaozuo Municipal Occupational Health Committee
35	Henan Province's benchmark for digital transformation of small and medium-sized enterprises	Henan Baililian New Materials Co., Ltd.	Henan Provincial Department of Industry and Information Technology
36	The first batch of super energy efficiency factories in Henan Province	Henan Baililian New Materials Co., Ltd.	Henan Provincial Department of Industry and Information Technology
37	High-tech Enterprises	Henan Baililian New Materials Co., Ltd.	Henan Provincial Department of Science and Technology
38	Second Prize in the 2nd "Zero Carbon Central Plains Cup" Henan Province Green Manufacturing Technology Application and Innovation	Henan Baililian New Materials Co., Ltd.	Henan Provincial Department of Industry and Information Technology
39	Competition, 2024; Ranked 16th among the Top	Longbai Sichuan Mining and Metallurgy Co., Ltd.	China Metallurgical Mining Enterprises Association
40	Ten Metallurgical Mines in the 8th China Metallurgical Mining Enterprises Top 50.	Longbai Sichuan Mining and Metallurgy Co., Ltd.	China Metallurgical Mining Enterprises Association
41.	National Model Workers' Home - Longbai Sichuan Mining and Metallurgy Co., Ltd.		All-China Federation of Trade Unions

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42. Sichuan Provincial Advanced Party Organization, Longbai Sichuan Mining and Metallurgy Co., Ltd.			Sichuan Provincial Mining Chamber of Commerce Committee of the
43. Longbai Sichuan Mining and Metallurgy Co., Ltd., one of the top 100 manufacturing companies in Sichuan in 2024			Communist Party of China, Sichuan Provincial Enterprise Confederation, Sichuan Provincial Entrepreneurs Association
44 Longbai Sichuan Mining and Metallurgy Co., Ltd., one of the top 100 private enterprises in Sichuan in 2024			Sichuan Provincial Federation of Industry and Commerce
45	Panzhihua City Honest Enterprise (2023) Panzhihua City	Longbai Sichuan Mining and Metallurgy Co., Ltd.	Panzhihua City General Chamber of Commerce
46	Advanced Unit for the "Glorious Cause" Program (2023)	Longbai Sichuan Mining and Metallurgy Co., Ltd.	Panzhihua City General Chamber of Commerce
47	Ranked 4th among the "Top 20 Vanadium and Titanium Enterprises in Panzhihua in 2024"	Longbai Sichuan Mining and Metallurgy Co., Ltd.	Panzhihua Enterprise Federation, Panzhihua Entrepreneurs Association, Panzhihua Vanadium-Titanium Industry Association
48	Ranked sixth among the "Top 50 Enterprises in Panzhihua (Comprehensive) in 2024", second among the "Top 30 Taxpaying Enterprises in Panzhihua in 2024", fifth among the "Top 30 Manufacturing Enterprises in Panzhihua	Longbai Sichuan Mining and Metallurgy Co., Ltd.	Panzhihua Enterprise Federation, Panzhihua Entrepreneurs Association
49	in 2024", and won the second prize in the team competition of fire protection skills for property service enterprises in Panzhihua City.	Longbai Sichuan Mining and Metallurgy Co., Ltd.	Panzhihua Municipal Safety Production Committee
50 Advanced Grassroots Party Organizations in Yanbian County, Sichuan Province, Longbai Sichuan Mining and Metallurgy Co., Ltd.			Communist Party of China Yanbian County Committee
51	Sichuan Provincial Workers' "Five Small" Activities Outstanding Innovation Achievements Activity	Panzhihua Longbaifengyuan Mining Co., Ltd. Sichuan Provincial Federation of Trade Unions	
52	Ranked 12th among the top 20 vanadium and titanium enterprises in Panzhihua in 2024	Panzhihua Longbaifengyuan Mining Co., Ltd.	Panzhihua Enterprise Federation, Panzhihua Entrepreneurs Association, Panzhihua Vanadium-Titanium Industry Association,
53	Ranked 28th among the Top 50 Enterprises in Panzhihua (Comprehensive) in 2024;	Panzhihua Longbaifengyuan Mining Co., Ltd.	Panzhihua Enterprise Federation, Panzhihua Entrepreneurs Association, Panzhihua
54	Ranked 12th among the Top 30 Taxpaying Enterprises in Panzhihua in 2024;	Panzhihua Longbaifengyuan Mining Co., Ltd.	Enterprise Federation, Panzhihua Entrepreneurs Association, Panzhihua Enterprise
55	Ranked 15th among the Top 30 Manufacturing Enterprises in Panzhihua in 2024; Advanced	Panzhihua Longbaifengyuan Mining Co., Ltd.	Federation, Panzhihua Entrepreneurs Association
56	Grassroots Party Organization of Dong District, Panzhihua City;	Panzhihua Longbaifengyuan Mining Co., Ltd. CPC Panzhihua City Dongqu District Committee	
57	Laboratory Accreditation Certificate from the China National Accreditation Service for Conformity	Henan Baili New Energy Materials Co., Ltd.	China National Accreditation Service for Conformity Assessment (CNAS)
58	Assessment; First Prize of the Science and Technology Progress Award from the All-China Environment Federation.	Henan Baili New Energy Materials Co., Ltd. China Environmental Protection Federation	

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59	Henan Province's manufacturing industry in 2024 List of Leading Enterprises to be Cultivated	Henan Baili New Energy Materials Co., Ltd. Henan Provincial Department of Industry and Information Technology	
60	Henan's strategic emerging industries in 2024 Ranked 44th among the top 100 companies	Henan Baili New Energy Materials Co., Ltd.	Henan Provincial Enterprise Federation / Henan Provincial Entrepreneurs Association
61	2024 Excellent Raw Material Supply Supplier	Henan Baili New Energy Materials Co., Ltd.	The Ninth International Year of China Huayou meeting
62	2024 National Lithium Iron Phosphate Industry Emerging Talent Award	Henan Baili New Energy Materials Co., Ltd.	Baichuan Yingfu 2024 (Third) (Series) New Energy and New Materials Industry seminar
63	SMM Ferric Phosphate Shipments in 2024 Top 10 in terms of volume	Henan Baili New Energy Materials Co., Ltd. (SMM - Shanghai Metals Market)	
64 Intelligent Workshops in Henan Province		Henan Zhongtan New Materials Technology Co., Ltd. (Henan Provincial Department of Industry and Information Technology)	
65 Green Factories in Henan Province		Henan Zhongtan New Materials Technology Co., Ltd. (Henan Provincial Department of Industry and Information Technology)	
66	Henan Provincial Engineering Technology Research Center Heart	Henan Zhongtan New Materials Technology Co., Ltd. Henan Provincial Department of Industry and Information Technology	
67 High-tech Enterprise Certification		Henan Zhongtan New Material Technology Co., Ltd.	Ministry of Industry and Information Technology Torch High-tech Zone Technology Industry Development Center
68 Henan Provincial Engineering Research Center, Henan Zhongtan New Materials Technology Co., Ltd.			Henan Provincial Development and Reform Commission meeting
69	Jiaozuo City Innovation and Entrepreneurship Talents (Group) Team)	Henan Zhongtan New Materials Technology Co., Ltd. Jiaozuo Municipal Science and Technology Bureau	
70	2024 Global Graphite Electrode Excellence Brand Award	Henan Zhongtan New Material Technology Co., Ltd. China Carbon Industry Association	
71. National Model Workers' Home - Longbailufeng Titanium Industry Co., Ltd.			All-China Federation of Trade Unions
72 National May 1st Labor Medal		Longbailufeng Titanium Industry Co., Ltd.	All-China Federation of Trade Unions
73	Yunnan Province's Top 100 Non-Public Enterprises 80 bits	Longbailufeng Titanium Industry Co., Ltd.	Yunnan Provincial Federation of Industry and Commerce
74	Innovation Capacity of Non-Public Enterprises in Yunnan Province 9th in the top 20	Longbailufeng Titanium Industry Co., Ltd.	Yunnan Provincial Federation of Industry and Commerce
75 Yunnan Province Health Enterprises		Longbailufeng Titanium Industry Co., Ltd.	Yunnan Provincial Health Commission
76	Yunnan Province's fourth batch of manufacturing units Champion Enterprises	Longbailufeng Titanium Industry Co., Ltd.	Yunnan Provincial Department of Industry and Information Technology
77 Chuxiong Prefecture Model Workers		Longbailufeng Titanium Industry Co., Ltd.	Chuxiong Prefecture Federation of Trade Unions

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78	Leading enterprises in Sichuan Province's opening-up and development	Longbai Sichuan Titanium Industry Co., Ltd.	The CPC Sichuan Provincial Committee and the Sichuan Provincial People's Government
79	Sichuan Provincial Association for the Promotion of Technological	Longbai Sichuan Titanium Industry Co., Ltd.	Sichuan Provincial Association for the Promotion of Technological Innovation
80	Innovation Technology Innovation Award; Level II Enterprise in Safety	Longbai Sichuan Titanium Industry Co., Ltd.	Sichuan Provincial Department of Emergency Management
81	Production Standardization (Hazardous Chemicals);	Longbai Sichuan Titanium Industry Co., Ltd.	Sichuan Provincial Federation of Industry and Commerce
82	2024 Top 100 Private Manufacturing Enterprises in Sichuan; 54th in	Gansu Baililian Chemical Co., Ltd.	Gansu Provincial Federation of Industry and Commerce, Gansu Provincial General Chamber of Commerce, Gansu Provincial Department
83	the 2024 Top 100 Private Enterprises in Gansu Province; Outstanding Contribution	Gansu Baililian Chemical Co., Ltd.	of Industry and Information Technology, State-owned Assets Supervision and Administration Commission of the State Council
84	Enterprise to the Steady Growth of Industrial Economy in Gansu Province	Gansu Baililian Chemical Co., Ltd. Gansu Provincial Department of Industry and Information Technology	
85	in 2023; 2024 Gansu Province "Specialized, Refined, Unique and Innovative" SME; Jinchang City 2023 City-	Gansu Baililian Chemical Co., Ltd.	Jinchang Municipal Bureau of Human Resources and Social Security, Federation of Trade Unions, and Federation of Industry and Commerce
86	level Standard Enterprise for Creating Harmonious Labor Relations in	Gansu Baililian Chemical Co., Ltd. Jinchang City Federation of Industry and Commerce	
87	the New Era; Advanced Unit in Investment Promotion in 2023; 89th in the	Longbai Xiangyang Titanium Industry Co., Ltd.	Hubei Provincial Federation of Enterprises and Hubei Provincial Entrepreneurs Association
88	2024 Top 100 Manufacturing Enterprises in Hubei Province; 17th in the 2024 Top 100 Industrial Enterprises in Xiangyang and	Longbai Xiangyang Titanium Industry Co., Ltd.	Xiangyang Enterprise Federation and Entrepreneurs Association
89	35th in the 2024 Top 100 Taxpayers; Membership Certificate of Hubei Provincial Feed Industry Association.	Longbai Xiangyang Titanium Industry Co., Ltd.	Hubei Provincial Feed Industry Association
90. Hubei Provincial Key Project: Longbai Xiangyang Titanium Industry Co., Ltd.			Hubei Provincial Key Construction Leading Group
91	Yunnan Guotai Metal Co., Ltd., ranked 201st	Yunnan Guotai Metal Co., Ltd. (Zhongguancun Forum)	
92	among China's world unicorn companies, was included in the "2024 China Reform Annual Case Collection Activity".		China Economic System Reform Magazine
93	The "Key Research Case of Enterprise Reform and Development in 2024"—Industrialization	Yunnan Guotai Metal Co., Ltd.	China Economic System Reform Magazine
94	of Intelligent Manufacturing of Aerospace-Grade Sponge Titanium—won the First Prize of the 2024 Nonferrous Metals Industry Science and Technology Award.	Yunnan Guotai Metal Co., Ltd. China Nonferrous Metals Industry Association	
95. Yunnan Guotai Metal Co., Ltd., one of the top 100 enterprises in Yunnan Province in 2024			China Enterprise Confederation, China Enterprise Directors Association, Yunnan Provincial Enterprise Confederation, Yunnan Provincial Entrepreneurs Association

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96	Top 100 Non-Public Enterprises in Yunnan Province in 2024;	Yunnan Guotai Metal Co., Ltd.	Yunnan Provincial Federation of Industry and Commerce
97	Fourth Batch of Manufacturing Single Champion Enterprises in Yunnan Province	Yunnan Guotai Metal Co., Ltd.	Yunnan Provincial Department of Industry and Information Technology
98	Yunnan Provincial Enterprise Technology Center, Yunnan Guotai Metal Co., Ltd.,	Yunnan Provincial Department of Industry and Information Technology	
99	Wuding Guotai was awarded the title of High-tech Enterprise	Yunnan Guotai Metal Co., Ltd.	Yunnan Provincial Department of Science and Technology, Yunnan Provincial Department of Finance, Yunnan Provincial Tax Service of the State Taxation Administration,
100	"Yunling Pioneer, Leading Party Organization in New Social Organizations" and "Strong Party Building Leads to Strong Development" Model Party Organization	Yunnan Guotai Metal Co., Ltd.	Organization Department of the CPC Yunnan Provincial Committee, Committee of the CPC Yunnan Provincial Committee on Non-Public Economic Organizations and Social Organizations, Organization
101	Chuxiong Prefecture Flexible Introduction Base for High-Level Talents	Yunnan Guotai Metal Co., Ltd.	Department of the CPC Chuxiong Prefecture Committee, Chuxiong Prefecture Human
102	Model Workers of Chuxiong Prefecture	Yunnan Guotai Metal Co., Ltd.	Resources and Social Security Bureau, Chuxiong Prefecture Committee and Government, Chuxiong Prefecture Federation of Trade Unions
103	Health Enterprises in Chuxiong Prefecture	Yunnan Guotai Metal Co., Ltd. Chuxiong Prefecture Health and Wellness Commission	
104	Second Prize in Welding Team Competition at the 2nd Lufeng City Staff Vocational Skills	Yunnan Guotai Metal Co., Ltd.	Lufeng Municipal Federation of Trade Unions and Lufeng Municipal Bureau of Human Resources and Social Security
105	Competition; Third Prize in Electrician Team Competition at the 2nd Lufeng City Staff	Yunnan Guotai Metal Co., Ltd.	Lufeng Municipal Federation of Trade Unions and Lufeng Municipal Bureau of Human Resources and Social Security
106	Vocational Skills Competition; Advanced Management Unit for Fire Safety in Lufeng City	Lufeng City Fire Safety Committee of Yunnan Guotai Metal Co., Ltd.	
107	Gansu Province Specialized, Refined and Innovative Enterprise: Gansu Detong Guotai Metal Co., Ltd. (Gansu Provincial Department of Industry and Information Technology)		
108	Top 100 Private Enterprises in Gansu Province in 2024	Gansu Detongguo Titanium Metal Co., Ltd.	Gansu Provincial Federation of Industry and Commerce
109	Health Enterprises in Jinchang City	Gansu Detong Guotai Metal Co., Ltd.	Jinchang Municipal Health Commission
110	Award of Excellence in the First Changsha "Star City Cup"	Hunan Oriental Scandium Industry Co., Ltd.	Hunan Provincial Department of Industry and Information Technology
111	Staff Technological Innovation (R&D) Competition for Specialized, Refined and Innovative Small and Medium-sized Enterprises in Hunan Province	Hunan Oriental Scandium Industry Co., Ltd.	Changsha Municipal Federation of Trade Unions

2. Technological innovation achievements of the company in 2024

2.1 Evaluation of scientific and technological achievements: Two scientific and technological achievements were evaluated in 2024, both of which reached the international advanced level.

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Serial Number	unit	Technological innovation achievements	Advanced
1	Yunnan Guotai Metal Co., Ltd.	Industrialization of intelligent manufacturing of aerospace-grade sponge titanium	International advanced
2	Yunnan Guotai Metal Co., Ltd.	Key technologies and industrial applications for efficient and comprehensive utilization of complex ilmenite resources	International advanced

2.2 Platform Construction Achievements: Longbai Group actively builds innovation platforms and steadfastly deepens technological innovation.

Empower enterprises to innovate and develop.

(1) Construction of innovative cooperation platforms

Longbai Group took the initiative, joining forces with multiple universities, research institutions, and industry partners to jointly establish the Hebei...

The Southern Province Innovation Consortium aims to solve key core technological problems that restrict industrial development and undertakes the implementation of...

With major science and technology projects as the main task, and adopting various forms of cooperation, we will carry out research and development and industrialization of key core technologies.

Applications will enhance the effectiveness of technology transfer and commercialization, forming an efficient and robust common technology supply system to solve systemic problems.

Addressing key and common technologies for industrial development, and enhancing industrial technological innovation capabilities and core competitiveness.

competitiveness;

(2) Construction of Enterprise Technology Center and Scientific Research Platform

Henan Baili New Energy Testing Center has obtained CNAS laboratory accreditation, further strengthening its testing capabilities.

The testing and inspection quality management system lays a solid foundation for improving product quality control and expanding domestic and international markets.

Henan Zhongtan New Material Technology Co., Ltd. and Jiaozuo Zhongzhou Carbon Co., Ltd. were approved as provincial engineering technology companies.

The Technology Research Center continuously conducts technological innovation and R&D in the field of carbon materials, and continuously promotes the development of industries in Henan Province.

Enhance technological innovation capabilities, deepen the implementation of the innovation-driven development strategy, and accelerate the deep integration of industry, academia, and research.

Longbai Lufeng Titanium Industry Co., Ltd. and Yunnan Guotai Co., Ltd. have been recognized as Yunnan Provincial Enterprise Technology Centers.

Increase investment in innovation elements, give full play to the functions of the technology center, and continuously enhance the company's position in the titanium industry.

Independent innovation capability and core competitiveness.

(3) Construction of a qualification and honor platform

The group added 2 high-tech enterprises, 2 provincial-level specialized and innovative SMEs, and Henan Baililian New Materials.

The limited company has passed the review for high-tech enterprise status.

3. Standards developed with the company's participation

In 2024, the company participated in the formulation of 2 national standards, 1 industry standard, and 1 group standard.

As of the end of 2024, Longbai Group had participated in the formulation and implementation of a total of 62 standards, including national standards.

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27 items, including 26 industry standards and 9 group standards.

3.1 National Standard

Serial Number Standard Type	Standard Name	Standard number
1. National Standard Technical Specification for Comprehensive Utilization of Titanium Gypsum		GB/T 45015-2024
2 National Standards	Energy consumption limits per unit product for titanium dioxide and iron oxide	GB 32051-2024
3 National Standards	pigments; General method for the determination of arsenic in inorganic chemical products, Part 3: Atomic fluorescence	GB/T 23947-2023
spectrometry; National Standard GB/T 23948-2023, General method for the determination of water-insoluble matter in inorganic chemical products.		
5. Technical Specifications for National Standard Laboratory Waste Storage Devices		GB/T 41962-2022
6. National Standard Terminology for Waste Chemicals		GB/T 29329-2021
7. General Preparation Method of National Standard Coating Film		GB/T 1727-2021
8 National Standards	General Test Methods for Pigments and Extenders Part 14: Determination of Residue on Sieves - Mechanical Washing Method	GB/T 5211.14-2021
9. National Standard Water Intake Quota Part 58: Titanium Dioxide		GB/T 18916.58—2021
10 National Standards	General Test Methods for Pigments and Extenders, Part 3: Determination of Volatile Matter at	GB/T 5211.3-2020
11 National Standards	105°C; General Test Methods for Pigments and Extenders, Part 6: Determination of pH Value of Aqueous Suspensions.	GB/T 5211.6-2020
12 National Standard General Method for Determination of Sulfate in Inorganic Chemical Products		GB/T 23844-2019
13 National Standards Methods for Determination of 26		GB/T 2524-2019
14 National Standards	Elements (Copper, Nickel, Lead, Zinc, Cadmium, Chromium, etc.) in Sludge from Wastewater Treatment of Sponge Titanium Industry;	GB/T 36690-2018
15 National Standards	Determination of Mercury in Inorganic Chemical Products: Atomic	GB/T 36384-2018
16 National Standards	Fluorescence Spectrometry; Chemical Analysis Methods for Sponge Titanium, Titanium and Titanium Alloys, Part 24: Determination of Nickel Content; Dimethylglyoxime Spectrophotometry and Inductively Coupled Plasma	GB/T 4698.24-2017
17 National Standards	Atomic Emission Spectrometry; Chemical Analysis Methods for Sponge Titanium, Titanium and Titanium Alloys, Part 25: Determination of Chlorine Content; Silver Chloride Spectrophotometry.	GB/T 4698.25-2017
18 National Standard Methods for the Treatment and Disposal of Iron-Containing Chemical Sludge		GB/T 34687-2017
19 National Standard Technical Guidelines for the Collection of Waste Chemicals		GB/T 34696-2017
20 National Standard Sampling Methods for Waste Chemicals		GB/T 33057-2016
21 National Standard Energy Consumption Limits for Titanium Dioxide Unit Product		GB 32051-2015
22 National Standard for Waste Chlorine Treatment and Disposal		GB/T 31856-2015
23 National Standard Classification Specification for Waste Solid Chemicals		GB/T 31857-2015

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24 National Standards	X-ray diffraction for crystal structure analysis of inorganic chemical products Shooting	GB/T 30904-2014
25 National Standards	X-ray determination of elemental content in inorganic chemical products Fluorescence spectroscopy	GB/T 30905-2014
26 National Standards for Titanium Dioxide in Cosmetics		GB 27599-2011
27 National Standard Titanium Dioxide Pigment		GB/T 1706-2006

3.2 Industry Standards

Serial Number Standard Type Standard Name 1	Standard number
Industry Standard Method for Disposal of Ilmenite Acidolysis Waste Residue 2	HG/T 6269-2024
Industry Standard Method for Determination of Titanium Ion Content in Waste Sulfuric Acid	HG/T 6233-2023
3 National Ecological Environmental standards Technical Specifications for Wastewater Treatment Engineering in Titanium Dioxide Industry	HJ 1279-2023
4. Industry Standards Determination of Copper, Nickel, Lead, Zinc and Cadmium Content in High-Salinity Wastewater Inductively Coupled Plasma Emission Spectrometry	HG/T 6117-2022
5. Industry Standard "Determination of Chemical Oxygen Demand (COD) in Waste Sulfuric Acid" HG/T 6109-2022	
6. Industry Standard "Method for Determination of Chloride Ion Content in Waste Sulfuric Acid"	HG/T 6108-2022
7. Industry Standard Method for Determination of Chemical Oxygen Demand in High-Chlorine Wastewater	HG/T5966-2021
8. Industry Standard Evaluation Requirements for Green Factories in the Titanium Dioxide Industry	HG/T5984-2021
9. Industry Standard: Technical Specification for Green Design Product Evaluation (Titanium Dioxide HG/T5983-2021)	
10. Standardized Titanium Dioxide for Fibers in the Industry	HG/T5923-2021
11 Industry Standards: Titanium Dioxide for Paper Industry	HG/T 5552-2019
12 Industry Standard Vanadium-Titanium Iron Concentrate	YB/T 4695-2018
13 Industry Standard Guidelines for the Safe Pre-treatment of Laboratory Waste Chemicals	HG/T 5012-2017
14 Industry Standard Industrial Polyaluminum Chloride	HG/T 2677-2017
15. Determination of Copper and Chromium in Waste Chemicals (Industry Standard)	HG/T 5014-2016
16 Industry Standard Industrial High Purity Zirconium Oxide	HG/T 4694-2014
17. Industry-standard titanium dioxide for catalysts	HG/T 4525-2013
18 Industry Standard Zirconia for Synthetic Gemstones	HG/T 4524-2013
19 Industry Standard Industrial Zirconium Oxide Dichloride (Zirconium Oxide)	HG/T 2772-2012
20 Industry Standard Zirconia	HG/T 2773-2012
21 Industry Standard Stabilized Zirconium Dioxide Part 1: Yttrium Stabilized Zirconium Dioxide HG/T 4201.1-2011	
22 Industry Standards for Non-Pigment Titanium Dioxide	HG/T 4202-2011
23 Industry Standard Industrial Aluminum Sulfate	HG/T 2225-2010
24. Industry Standard "Feed Grade Ferrous Sulfate"	HG/2935-2006
25 Industry Standards for Industrial Zirconium Carbonate	HG/T 3785-2005
26 Industry Standard Industrial Zirconium Sulfate	HG/T 3786-2005

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3.3 Group Standards

Serial Number Standard Type	Standard Name	Standard number
1. Group Standard	Technical Specifications for Life Cycle Assessment of Lithium-ion Batteries (Product Category Rules)	T/DZJN 254-2024
2. Group Standards	Green Design Product Evaluation Technical Specifications - Lithium Iron Phosphate Battery Cathode Material	T/DZJN 173-2023
3. Group Standard: Technical Requirements and Testing Methods for High-Purity Titanium Dioxide Products (T/CIECCPA 015-2023)		
4. Group Standard for Credit Rating Evaluation of Carbon Trading Enterprises		T/CIET 051—2023
5. Group Standard: Method for Recycling and Treating Titanium Resources from Acidolysis Waste Residue of Titanium Dioxide (T/CPCIF 0171—2021)		
6 Group Standards	Chlorination process titanium dioxide pigment	T/CNCIA 01016-2021
7. Group Standard: Technical Requirements for Pollution Control in the Comprehensive Utilization of Titanium Gypsum (T/ZGZS 0302-2021)		
8. Group Standard: Technical Specification for Green Design Product Evaluation of Titanium Dioxide (T/CPCIF 0088-2021)		
9 Group Standards	Determination of specific oxides in titanium dioxide pigments X-ray fluorescence spectroscopy	T/CSTM 00026-2019

4. Technology patents and awards obtained by the company

4.1 Technical Patents

In 2024, the company obtained a total of 159 authorized patents, including 59 invention patents and 100 utility model patents.

216 patent applications were accepted, including 139 invention patents and 77 utility model patents. (As of the end of 2024, Longbai Group...)

The group has obtained 1,272 valid authorized patents, including 414 invention patents and 858 utility model patents.

4.2 Awards and Awards

In 2024, a total of 4 provincial and ministerial-level achievements were obtained.

Certificate Name	Project Name	Award Level	Award time approval unit	
First Prize for Scientific and Technological Progress	Resource utilization of titanium dioxide waste based on energy conservation, carbon reduction, and pollution reduction.	Provincial and ministerial level, May 2024		China Environmental Protection Federation

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	Innovation and application of integrated technologies			
Technological progress Second Prize	Green preparation and synthesis of rutile Key technology development and industrialization should use	Provincial and ministerial level, December 2024		China Chemical learn
Technological progress Third Prize	Chlorination process for paper-grade titanium dioxide Key technologies and industrialization of production	Provincial and ministerial level, December 2024		China Petroleum and Chemical industry Federation
Henan Provincial Patent Award	A titanium dioxide pigment and its Preparation method	Provincial and ministerial level, February 2024		Henan Province People's Government

(v) Social Responsibility Performance

index	2023	2024
economy		
Total operating revenue (100 million yuan)	267.94	275.39
Taxes paid (in ten thousand yuan)	228,662.73	251,749.14
Research and development expenditure (ten thousand yuan)	101,411.58	117,476.29
Titanium dioxide production (10,000 tons)	119.14	129.55
environment		
Environmental protection expenditure (ten thousand yuan)	90,192.40	91,934.59
staff		
Total number of employees (people)	18,356	19,385
Total employee salaries (ten thousand yuan)	164,510.66	171,538.98
Ethnic minority employees (number of people)	1,107	1,257
Labor contract signing rate (%)	100	100
Social insurance coverage rate (%)	100	100
Insurance premium paid (ten thousand yuan)	39,512.54	45,170.68
Number of people employed	3,740	3,280
Percentage of female managers (%)	25.38	26.42
Average training time per person (hours)	55.40	55.53
Employee union participation rate (%)	100	100
Number of union members (people)	18,356	19,385
Number of people covered by the collective wage bargaining	18,356	19,385
system (people) Number of disabled employees (people)	296	314

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Percentage of disabled employees (%)	1.61	1.62
Safety		
Safety expenditure (ten thousand yuan)	21,343.19	23,096.06
Occupational health check-up rate (%)	100	100
Occupational disease prevention coverage	100	100
rate (%) Safety training coverage rate (%)	100	100
Labor protection equipment availability rate (%)	100	100
Public welfare		
Charitable donations and public welfare contributions (ten thousand yuan)	1,069.97	816.89
Cost consumption		
Electricity consumption (kWh)	5,152,618,308	5,501,594,661.90
Coal (T)	522,723.77	605,988.61
Natural gas (m^3)	509,688,337.53	519,175,483.15

IV. Outstanding performance and exemplary social conduct

(I) Overall Social Responsibility Goals

Creating a beautiful titanium lifestyle, becoming a respected enterprise

(II) General Path to Fulfilling Social Responsibility

Strengthen social responsibility management mechanisms, improve safety production management standards, and expand the scope of green production management.

Comprehensively refine resource conservation indicators, promote decent employment for employees, implement targeted and budgetary management of public welfare and charity projects, and optimize...

Establish a responsible procurement system.

(III) Organizational Structure for Social Responsibility

Based on its own management practices, the company has established a dedicated social responsibility position, headed by the chairman and Benliu.

The management structure consists of a Social Responsibility Management Committee and a Social Responsibility Executive Committee chaired by President Wu Pengsen.

It has formed a framework encompassing six key areas: environmental protection, resource conservation, decent employment, public welfare and charity, cultural heritage, and responsible procurement.

The corporate social responsibility (CSR) implementation framework is based on major segments and is responsible for the overall management of CSR work.

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(iv) External initiatives related to social responsibility



Longbai Group has joined the United Nations Global Compact, and all its responsible policy actions are based on global principles.

The guidelines for adhering to the Ten Principles of the United Nations are publicly released through the company's internal communication platforms and official website.

The ten principles and clauses. Guided by these principles, we are committed to realizing ten principles related to human rights, labor, and the environment.

We will take relevant actions to promote the implementation of social and sustainable development goals. We aspire to become a global compact organization.

A strong, long-term partner.

(v) Social Responsibility Communication

(1) Establish a smooth internal communication mechanism

Utilize the group's internal OA platform and corporate newsletter to promote the concept of social responsibility in a targeted manner; conduct social activities.

Corporate social responsibility training and specialized seminars for middle and senior management were held to discuss measures and development plans for improving corporate social responsibility.

Actively carry out social welfare activities such as Jiaozuo Love and Care Education Assistance Program, village-enterprise co-construction, and August 1st Army Dayÿÿ (comforting and comforting) activities.

(2) Expand the external responsibility communication mechanism

The company regularly publishes an annual corporate social responsibility report through the CNINFO website; and utilizes the group's official website...

Expand publicity through WeChat official accounts and video accounts, and establish a sustainable development column on the group's official website, with a section on social responsibility.

Overview, HSE Management Activities, Corporate Social Responsibility, Technological Innovation, Annual Responsibility Report, Employee Care, etc.

The company will update the content of relevant sections dynamically as needed; and invite stakeholders to participate in company value chain meetings.

Discussions; advance announcements of major projects to solicit opinions from stakeholders; active participation in domestic and international industry forums.

Attend responsibility forums and conferences, and participate in the formulation of industry standards; regularly communicate with the media and conduct relevant reporting.

(3) Strengthen communication and exchange among stakeholders

The company consistently focuses on the needs of stakeholders and insists on establishing diversified communication mechanisms with stakeholders.

The company assumes corresponding social and economic responsibilities, including those of its employees, shareholders, customers, and related partners.

Protect the rights and interests of employees and shareholders, and respect and safeguard the interests of stakeholders (suppliers, customers, government, community, etc.).

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We should safeguard the interests of all parties and actively communicate and negotiate with stakeholders to build harmonious relationships.

The company places great emphasis on protecting employee interests, taking into account both annual production realities and the overall internal and external environment.

Factors that are closely related to employees' vital interests can be improved through multiple channels, including salary, benefits, employment, and employee development.

We strive to improve employee benefits and expand their career paths to enhance their overall well-being.

The company respects the rights and interests of its partners and builds a bridge of strategic cooperation between customers and suppliers.

Liang, through his own efforts and positive influence, has continuously improved the management and quality control levels of suppliers.

Improvement. Meanwhile, the company has organized multiple training sessions for suppliers, including RoHS management requirements, environmental management, and...

A series of training programs, including those on supply chain social responsibility, have enabled suppliers to work in sync with our company and make progress together.

By identifying, classifying, communicating with, and managing all stakeholders of the company, and identifying stakeholder expectations and evaluations...

To mitigate the impact of pricing on stakeholders and ensure smooth communication between the company and these stakeholders, the company increases communication methods such as emails and questionnaires.

The frequency of communication methods such as investigations, face-to-face meetings, video conferences, in-person meetings, and training should be maintained to ensure close contact with stakeholders.

Through close communication and cooperation, the company has effectively improved its corporate social responsibility governance performance.

Stakeholders	Expectations and Needs	Communication channels
client	Product and service quality, product price, delivery speed, business ethics	Provide high-quality products and services, business contacts, site visits, and customer satisfaction surveys.
Company employees	Compensation and benefits, career development, health and safety, corporate culture	Longbai Voice platform facilitates suggestions for improvement, seminars, labor union meetings, employee representative assemblies, employee training needs and satisfaction surveys.
supplier	Long-term cooperation, reasonable prices, honest operation, mutual benefit, and long-term sustainable development.	Supplier meetings, business negotiations, bidding activities, social responsibility assessments
local community	Community harmony, environmental protection, joint construction of civilization, and shared development.	Strengthening environmental protection, carrying out public welfare activities, participating in community rural revitalization, joint construction projects between local governments and enterprises, and enterprise open day activities.
Shareholders (Investors)	Governance structure, operating performance, capital appreciation and dividends, sustainable development	Communicating through shareholder meetings, annual reports, semi-annual reports, quarterly reports, and investor relations interaction platforms.
Research institutions	Innovative cooperation to enhance Longbai's industry influence	Science and Technology Forum, University-Enterprise Cooperation
Government and regulatory agencies	Environmental policies, taxation, job creation, occupational health and safety, and long-term sustainable development	Government meetings, special reports, project cooperation, statistical reports, and regular supervision and inspection.
industry association	Implement industry standards, ensure smooth communication, participate in association activities, and formulate relevant standards.	Participating in industry development forums, participating in standard setting, promoting industry-academia-research cooperation,
Foreign media information disclosure and transparency, expanding corporate publicity		strengthening information disclosure, holding media visits to Longbai, and inviting media to participate in important events.

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(vi) Recognition of social responsibility fulfillment

The company's stock has been included in the Shenzhen Component Index and the CSI 300 Index, two major A-share indices, as well as the Hang Seng A-Shares Sustainable Development Index.

The Hang Seng Corporate Sustainability Benchmark Index, the Hang Seng A-Shares Corporate Sustainability Index, and the Hang Seng Mainland and Hong Kong Corporate Sustainability Index.

As a constituent stock of the industry index, it is listed among the sample companies of the CSI 300 Carbon Neutral Index.

Longbai Group has been listed among the top 500 Chinese listed companies and the top 500 Chinese private enterprises, and has been listed for seven consecutive years.

One of China's Top 500 Manufacturing Enterprises, awarded the 2024 China Manufacturing Listed Companies Social Responsibility Five-Star Gold Award, and the 2023...

Henan Socially Responsible Enterprise, Outstanding Social Responsibility Case Award, 15th China Listed Companies Investor Relations Forum

The Pegasus Award for Shareholder Returns was awarded to a Shenzhen Stock Exchange Main Board listed company for four consecutive years from 2020 to 2023.

Information disclosure assessment received an A grade rating.

In 2024, the China Association for Public Companies released the list of cash dividend payouts for A-share listed companies on the Shanghai and Shenzhen stock exchanges.

Since its listing, Bai Group has rewarded its shareholders who have supported the company's development with excellent dividend returns, ranking among the top in the past three years.

List of total cash dividends. V. Improved governance system achieves compliant operation.

(i) Standardize the corporate governance system and strengthen the construction of internal control.

The company has established a simple, transparent, standardized, and responsible governance system and continuously improves its modern enterprise management system.

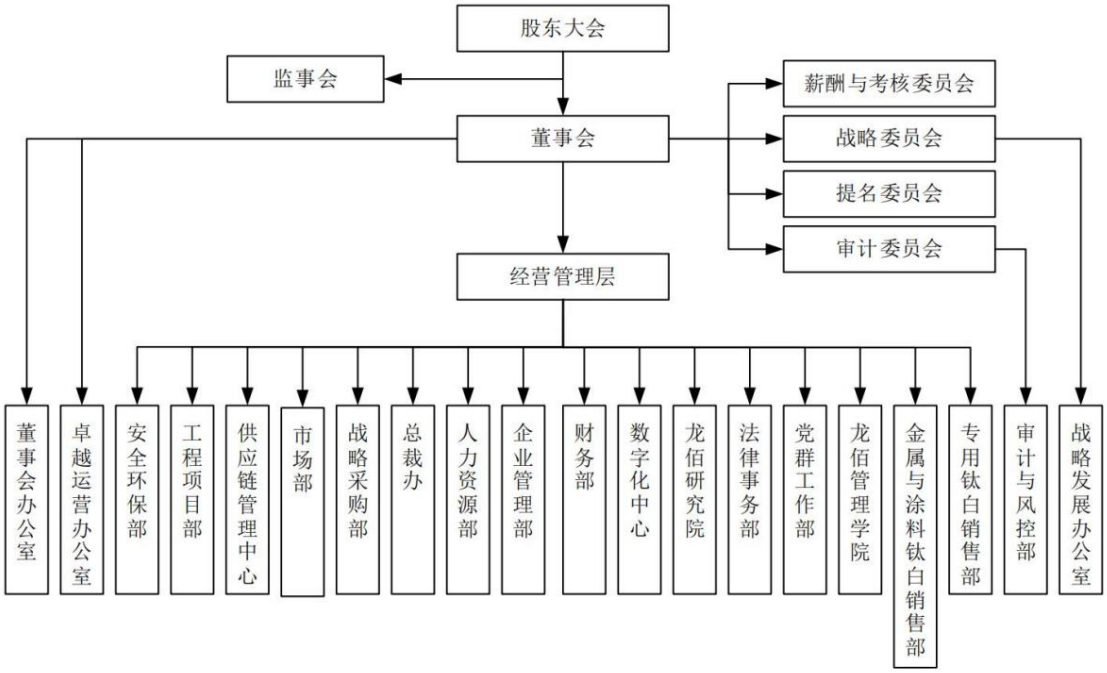
A system has been formed, consisting of the shareholders' meeting, the board of directors, the supervisory board, and senior management, with clearly defined powers and responsibilities, and each performing its own duties.

A group governance check-and-balance mechanism that ensures mutual coordination and effective checks and balances, while optimizing the distribution of power, decision-making, supervision, and execution.

The inter-agency operational mechanism of "scientific decision-making, effective supervision, and sound operation" effectively ensures the company's continued growth.

Healthy development.

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In 2024, the company held a total of 4 shareholders' meetings, strictly in accordance with the "Company Law" and the "Shareholders' Meeting Regulations of Listed Companies".

The convening of shareholders' meetings shall be governed by the requirements of laws and regulations such as the "Rules of Procedure for Shareholders' Meetings," the "Articles of Association," and the "Rules of Procedure for Shareholders' Meetings."

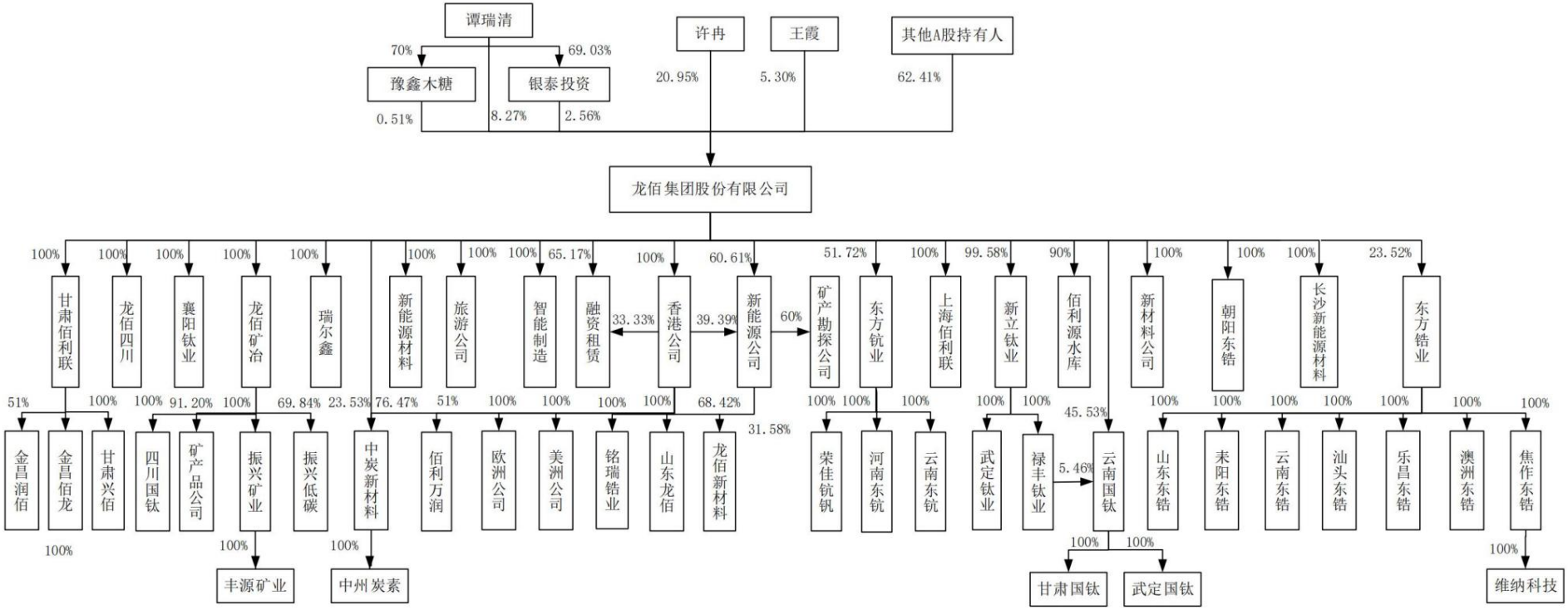
The procedures for convening, holding, and voting at company shareholders' meetings ensure that all shareholders enjoy equal status and exercise their rights.

All meetings adopted a combination of on-site and online voting, and were witnessed by lawyers to ensure the smooth convening of the meetings.

The legality and compliance of the convening and voting procedures safeguarded the legitimate rights and interests of minority shareholders.

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(II) Company Equity Structure Diagram



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(III) Establish a professional data platform to ensure the company's information security

The company earnestly implements the government's call to "drive industrialization with informatization and promote informatization with industrialization."

Committed to building a data security governance system to maintain information security, the company has established a professional data center and possesses dedicated...

This is part of a comprehensive information security management system. Encrypted clients help companies prevent external intrusion and internal leaks, ensuring...

Protect the company's information and systems from unauthorized access, use, disclosure, interruption, modification, and damage.

To ensure the confidentiality and integrity of the company's critical data during communications. The company attaches great importance to information security and its customers.

Privacy protection is clearly stipulated in the Group's "Information Management System" and "Information Security Management Measures".

Internal information security management requirements dictate that relevant employees must sign confidentiality agreements. The company and relevant personnel...

We are aware of the company's trade secrets and strictly adhere to confidentiality measures to mitigate legal risks related to infringement. During the reporting period,

The company strictly adheres to the confidentiality agreements signed with clients, and rigorously manages and protects client-related information and data.

There has never been a complaint arising from the leakage of customer information.

(iv) Improve the risk management and control system and prevent systemic risks.

Longbai Group has established a complete risk management and internal control system. This is achieved through the development of risk analysis and control flows.

The process involves assigning risk identification, assessment, and response control measures to specific departments, integrating risk management with internal control.

Effective integration has improved the company's risk prevention and control capabilities and enhanced its control measures.

During the reporting period, the company, taking into account changes in internal and external environmental factors and guided by the company's fundamental operating principles, streamlined...

The identified risk events cover five major areas: strategy, finance, marketing, operations, and legal, and also include environmental protection.

Risks related to environmental protection, social responsibility, and corporate governance have been incorporated into risk management, covering many aspects of corporate management.

No systemic or disruptive risk events occurred during the reporting period.

(v) Establish a communication and complaint mechanism to create a clean and upright environment.

The group has assigned dedicated personnel to handle messages and complaints, and accepts online inquiries through the company website and WeChat official account.

The message board includes a dedicated section that publicly displays information such as a hotline, email address, and mailing address for reporting violations. Whistleblowers can choose to submit their reports.

Anonymous report. With the support of the data center, the relevant departments have taken all necessary security measures to prevent...

Unauthorized personnel access to classified information.

The group has proposed strict anti-fraud and whistleblowing system and whistleblowing and complaint management system in its drafting documents.

Confidentiality requirements: All communication channels are confidential, and the compliance officer and members of the company's supervisory board must strictly adhere to them.

Confidentiality obligation; The materials of accusations and complaints, as well as the information of the accusers and complainants, shall not be transferred to or disclosed to the group being accused or complained against.

Organizations and personnel; when accepting reports and accusations or conducting investigations, they should do so without revealing the identity of the person making the report or accusation.

Under what circumstances should this be carried out? When publicizing or reporting on individuals who have made meritorious contributions in reporting or accusing others, and when this involves disclosing their names or other personal information, the relevant authorities should be consulted.

With the consent of the person concerned.

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VI. Harmonious investor relations lead to win-win development

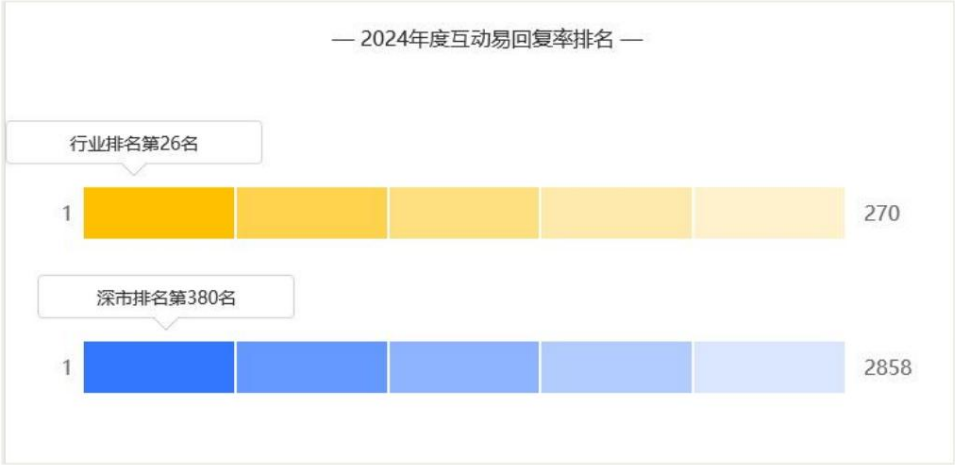
(i) Strengthen investor relations management and establish multi-level communication channels

Investor relations management serves as a channel and bridge for communication between investors and the company, and the company emphasizes fair treatment.

To all shareholders and investors. In 2024, the company continuously standardized its investor relations management and improved its corporate governance system.

In accordance with the "Investor Relations Management System of Longbai Group Co., Ltd.", to promote the relationship between the company and its investors.

To establish long-term, stable, and positive relationships with the company, and to achieve integrity, self-discipline, and standardized operation.





The company regards its investors as its most valued partners and insists on multi-channel and multi-level communication and exchange, implementing "online"

The system utilizes a dual-channel approach, combining "1 platform + 4 meetings + 2 hotlines," and assigns dedicated personnel to provide services, thus facilitating effective communication.

Accessibility. In 2024, the company actively communicated with major media outlets to produce various press releases, which were promptly disseminated to the market.

Feedback on the company's development strategy and project progress; the company has designated personnel to answer investor inquiries and patiently listen to their feedback.

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We address investor concerns diligently, answer their questions thoughtfully, warmly and responsibly receive research personnel, and promptly compile visitor information.

And research records. Through roadshows, interactive platforms, investor mailboxes, and participation in online investor communication activities, etc.

The company communicates with investors through various means, effectively enhancing the depth and breadth of communication with shareholders and investors.

To build a harmonious and positive relationship with investors and increase their attention to the company.

In 2024, the company received over 100 institutional and individual investors and answered over 500 investor calls.

I participated in more than 30 securities firm strategy meetings and answered 134 investor questions on the interactive platform, achieving a 100% response rate.

The published investor relations activity record form responded to 37 key investor concerns, promoting investor relations.

Understanding and appreciating the company allows for better value judgments.

(ii) Maintain high-quality information disclosure and enhance market transparency

In recent years, the Group has attached great importance to information disclosure, in accordance with the "Shenzhen Stock Exchange Stock Listing Rules".

"Shenzhen Stock Exchange Guidelines for Self-Regulatory Supervision of Listed Companies No. 1 – Standardized Operation of Main Board Listed Companies", etc.

In accordance with relevant laws, regulations, normative documents, and the company's articles of association, the company diligently fulfills its information disclosure obligations.

Formulate the "Information Disclosure Management System", "External Information Reporting and Use Management System", and "Periodic Report Compilation System".

A series of systems, including the "Management System for Annual Reports" and the "Accountability System for Major Errors in Annual Report Information Disclosure," have been established, forming a system based on...

The information disclosure responsibility system, with the chairman as the primary responsible person and the board secretary as the directly responsible person, is being continuously optimized.

The information disclosure department operates with dedicated personnel responsible for specific tasks, ensuring the authenticity, accuracy, and completeness of information disclosure.

Timeliness, fairness, and legality and compliance.

The Group insists on disclosing its corporate social responsibility reports, including those on environment, social responsibility, and corporate governance.

(ESG) compliance status; proactive disclosure of matters concerning the company's active participation in activities aligned with major national strategic policies, etc.

Information. In 2024, the company disclosed information through newspapers including the *China Securities Journal*, *Securities Times*, and *Shanghai Securities News*.

Together with the website "Juchao Information Network (www.cninfo.com.cn)," a total of 118 announcements, including periodic reports and temporary announcements, were disclosed.

The company shall fulfill its information disclosure obligations truthfully, accurately, and completely, so that its shareholders and creditors can promptly understand and grasp the relevant information.

Stay informed about the company's operations, financial status, and major events.

(III) Implement the cash dividend policy and continue to focus on shareholder returns.

The company adheres to a stable, continuous, and scientific dividend policy, providing excellent dividend returns to support the company's development.

The company is committed to serving its vast shareholders. This is in accordance with the "Future Three Years (2023-2025)" plan disclosed on April 28, 2023.

The "Shareholder Return Plan" further clarifies the company's dividend returns to both new and existing shareholders, establishing a system for investor returns.

A continuous, stable, scientific, and transparent return planning and mechanism ensures the continuity and stability of profit distribution, and increases...

High transparency and operability in profit distribution.

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VII. Implement dual-carbon initiatives to promote sustainable corporate development

(I) Corporate "Dual Carbon" Management and Conservation Responsibility Concept

"Carbon peaking and carbon neutrality" management is an international responsibility and obligation. The Group closely adheres to the "dual carbon" target and mission.

Raise awareness, actively respond to the national "dual carbon" strategy, and effectively promote the phased implementation of dual carbon work, using project technology...

The primary vehicle will be changed to achieve a close integration of cost reduction and efficiency improvement with "dual-carbon" work. Scientific "dual-carbon" management will be implemented.

Establish a sound management mechanism and a conservation mechanism involving all employees, continuously improve the standards for reduction, recycling, and reuse, and fulfill the responsibility of resource conservation.

Responsibility promotes low-carbon development for enterprises.

(II) Measures and achievements in fulfilling corporate "dual carbon" management and conservation responsibilities 1. Dynamically improve the

company's dual carbon management level

In 2024, in order to actively respond to the national strategic deployment on green and low-carbon transformation and implement the "Longbai Group"

The specific requirements of the "2024 Dual Carbon Management Work Plan" dictate that each company should focus on energy conservation in processes and equipment, and energy management.

We will continuously optimize and innovate to achieve the dual goals of energy conservation and carbon reduction as well as technological innovation.

2. Strengthen the implementation of energy management systems

To improve energy efficiency, in accordance with the "Energy Conservation Law of the People's Republic of China" and the "Key Energy-Consuming Units"

In accordance with relevant energy laws and regulations such as the "Energy Conservation Management Measures," and in light of the company's actual situation, we will develop an energy management system.

The training content will incorporate energy management into the assessment, strengthen the implementation of the "Energy Management System," and refine the "Energy Use..."

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The "Management Regulations" have fostered a positive atmosphere for energy conservation and potential tapping across all areas of the company, ensuring reasonable energy saving and consumption reduction, and minimizing energy consumption.

Waste, achieve dual control of energy consumption intensity and total amount, and achieve the dual control target of energy consumption.

3. Promote the green and low-carbon transformation of the energy structure and vigorously advance the reduction and substitution of fossil fuels.

Energy is a major source of carbon emissions. The transition to a low-carbon energy structure and the diversification and iteration of the energy system are crucial.

The intelligent upgrading of the energy industry and the multipolar pattern of energy supply and demand are the current state of the global energy system. The company adheres to safety...

Carbon reduction, while ensuring energy security, involves vigorously implementing renewable energy substitution and accelerating the construction of a clean and low-carbon society.

A safe and efficient energy system should be established, and the clean and efficient use of fossil fuels such as coal and natural gas should be promoted.

Excellent practice cases:

Carbon reduction at the source is crucial for achieving the "dual carbon" goal. Longbai Group is accelerating the greening of its energy structure.

Based on the requirements of low-carbon transformation, we will implement "photovoltaic power generation," "coal-to-gas conversion," and "coal-to-electricity conversion" to promote energy structure adjustment.

Optimization. Typical projects with significant results include:

Currently, the group's total installed photovoltaic capacity is 26.63MW, with the two Yunnan bases expected to add new installed capacity in 2024.

The capacity is 13.21MW, with an average daily power generation of 31,000 kWh.

The coal-fired boiler renovation project of Longbai Sichuan Titanium Industry Co., Ltd. involved adding water-cooled walls on both sides of the boiler furnace.

Natural gas burners reduce coal consumption by 40% and can reduce carbon dioxide emissions by 20,000 tons per year.

The Jiaozuo base has transformed ferricrystalline crystallization from the original indirect crystallization method to a continuous crystallization method, utilizing electrical energy.

Replacing steam energy can reduce carbon dioxide emissions by 107,000 tons per year.

Longbai Sichuan Titanium Industry Co., Ltd. implements energy-saving technology upgrades to the sulfuric acid process titanium dioxide crystallization and concentration section.

The project will replace steam concentration with MVR evaporation concentration, and replace the original steam jet vacuum ferrous crystallization method.

The process was changed to a new continuous vacuum crystallization process, using electricity instead of steam energy to reduce the overall cost of the titanium liquid concentration process.

It can reduce energy consumption by 31,000 tons of carbon dioxide per year.

4. Strengthen research on green and low-carbon technologies and continue to implement key energy-saving, emission-reducing, and carbon-reducing projects.

The company continues to carry out innovation activities focused on "cost reduction and efficiency improvement, energy conservation and carbon reduction," centering on process optimization, equipment improvement,

Numerous innovative improvement projects have been carried out in areas such as safety and environmental protection, energy conservation and consumption reduction.

Regarding process optimization: ÿ Longbai Sichuan Titanium Industry Co., Ltd. utilizes waste acid concentration primary steam condensate to add

Cooling water for the cold slag machine and turbine shaft seals in the hot-entry deaerator reduces the deaerator steam consumption.

Annual steam savings of 17,300 tons, equivalent to 1641.6 tce of standard coal, and carbon reduction of 4514.4 tons. ÿ Longbai Xiangyang Titanium Industry Co., Ltd.

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The company added a flash dryer to the hydrolysis process, and metatitanic acid was evaporated using the heat of the material itself.

Flash evaporation dehydration saves approximately 4147.2 tons of steam annually, equivalent to 418.04 tons of standard coal equivalent, and reduces carbon emissions by 1300.85 tons.

Regarding process equipment optimization: ÿ The Jiaozuo base has achieved the recovery and utilization of by-product hydrogen, with an estimated annual steam production...

50,000 tons, equivalent to 4702.42 tce of standard coal. ÿ Gansu Guotai Company will replace its reducing distillation furnace with a new type of high-efficiency, low-loss system.

Furnace wire, saving 2582.4 MW·h of electricity annually, equivalent to 317.38 tce of standard coal. ÿ Sichuan Mining and Metallurgy Co., Ltd.

The company replaced electric heating with air source heat pumps and heat pumps, reducing power consumption from 2400kW to 1436kW annually.

It saves 7634.9 MW·h of electricity, equivalent to 938.33 tce of standard coal.

5. Promote energy-saving upgrades and renovations of key energy-consuming equipment.

Focusing on equipment such as motors, fans, pumps, compressors, transformers, heat exchangers, and industrial boilers, the entire...

Improve energy efficiency standards.

Regarding energy-saving motor retrofitting: ÿ Panzhihua Baifengyuan Mining Co., Ltd. replaced the switching reluctance in 2024.

Nearly 20 motors, with a total power of 2602kW, were replaced. The overall energy saving rate of the motors after replacement was 23.08%; ÿ Gansu Guotai Machinery Co., Ltd.

The company replaced over 50 switched reluctance motors in 24 years, achieving a comprehensive energy saving rate of 29.14%; ÿ Jiaozuo base in 2024

The installation of switched reluctance motors and permanent magnet synchronous motors has shown that they have achieved energy-saving effects, with a comprehensive energy-saving rate of 6%-13%.

The group plans to replace more than 800 motors with energy-saving ones by 2025.

6. Improve resource recycling rate to help reduce carbon emissions.

Longbai Group fully leverages collaborative innovation across the industrial chain to vigorously develop a circular economy and comprehensively improve resource utilization.

By leveraging efficiency and fully utilizing the synergistic effect of reducing resource consumption and carbon emissions, Longbai is creating a unique circular economy model.

New system. ÿ Panzhihua Baifengyuan Mining Co., Ltd. flotation tailings recycling process optimization and upgrading project, adopting...

By utilizing idle spiral sluices to recycle flotation tailings, the recovery rate of titanium metal can be improved. This addresses the issue of low grade in flotation tailings.

The problem of higher-grade coarse-grained materials failing to be screened and being discarded as tailings greatly increases the difficulty of titanium metal processing.

The yield can be increased, recovering an additional 13,100 tons of titanium concentrate annually. ÿ Jiaozuo Base Slag Recovery Magnetic Separation Process Upgrade Project

The tailings that were previously discharged directly are now being fed into a newly added magnetic separator for secondary magnetic separation, and the process of the magnetic separator is being improved.

Parameters such as feed rate, magnetic roller speed, and concentrate plate spacing were optimized through experiments to significantly improve the concentrate efficiency in magnetic separation.

The recovery process reduced the total titanium content in the discharged tailings and improved the titanium dioxide yield. It also increased the daily production of magnetic concentrate by 17.4%.

Tons. ÿ Development of green and environmentally friendly low-VOC coating titanium dioxide products, new energy-saving and consumption-reducing technologies for sulfuric acid process titanium dioxide, and sulfuric acid...

The research and application of green slag reduction technology for titanium dioxide production won the "Zero Carbon Central Plains Cup" Henan Province Green Manufacturing Technology Application Award.

Second prize in the innovation competition.

7. Implement carbon trading and green electricity trading, and carry out carbon market compliance work.

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Longbai Sichuan Titanium Industry Co., Ltd. and Longbai Xiangyang Titanium Industry Co., Ltd. were included in the carbon trading market, completing the 2023...

Annual quota compliance and settlement resulted in a quota shortfall of approximately 24,000 tons, and a routine and long-term monitoring system for carbon emission data quality was established.

Mechanisms to actively fulfill corporate social responsibility.

8. Obtain certification

Baichuan Mining & Metallurgy Co., Ltd. has passed energy management system certification, and currently all 8 of its production bases have passed energy management system certification.

Management system certification.

VIII. Building an Ecological Civilization and Creating a Green Longbai

(I) The concept of ecological and environmental protection

The company deeply integrates environmental protection concepts such as environmental friendliness, green and low-carbon development, energy conservation and emission reduction, and circular development into its corporate strategy.

In terms of the core framework of daily operations and social responsibility, we actively explore and select cleaner and greener new processes.

We will use new technologies to achieve a win-win situation for both environmental protection and economic benefits.

(II) Measures for Fulfilling Ecological and Environmental Protection Responsibilities

1. Establish an environmental management system

The company strictly abides by the "Environmental Protection Law of the People's Republic of China" and the "Environmental Impact Assessment Law of the People's Republic of China".

Based on relevant laws and regulations such as the "Pricing Law" and the "Cleaner Production Promotion Law of the People's Republic of China," and according to business preferences, [the following is a list of specific policies/measures].

The regiment and its bases have formulated and continuously improved various environmental protection management systems. The main environmental protection systems that have been formulated include:

"Longbai Group Environmental Protection Management Measures" and "Longbai Group Construction Project Environmental Protection 'Three Simultaneities' Management Measures"

"Longbai Group Environmental Accident Reporting and Investigation Management Measures" and "Longbai Group Hazardous Waste Management System"

"Longbai Group Environmental Pollution Prevention and Control Management Measures", "New Materials Company Environmental Pollution Prevention and Control Management System", "Longbai Group Environmental Pollution Prevention and Control Management Measures"

"Responsibility System for Pollution Prevention and Control of Tailings Pond of Longbai Sichuan Mining and Metallurgy Co., Ltd."

"Disease Investigation and Treatment System", "Environmental Protection Management Measures for Jiaozuo Base", "Environmental Protection of Longbai Sichuan Titanium Industry Co., Ltd."

Management System; Emergency Implementation Plan for Heavy Pollution Weather of Longbai Sichuan Titanium Industry Co., Ltd.; Longbai Xiangyang Titanium Industry Co., Ltd.

Limited Liability Company Pollutant Emission Indicator Management and Assessment Scheme; Environmental Management of Henan Baili New Energy Materials Company

Compilation of regulations, including "Management Regulations for the Tailings Pond Cleaning and Sewage Diversion System of Panzhihua Fengyuan Mining Co., Ltd."

In 2024, each base revised its own regulations in a timely manner according to its own circumstances, and strengthened the construction of regulations, such as formulating the "Cloud..."

Nanguo Titanium Metal Co., Ltd. Environmental Protection Management Measures; Henan Baili New Energy Materials Co., Ltd. Environmental Protection Management Measures

Environmental and Occupational Health and Safety System Documents; Operation of the Online Pollution Source Monitoring System of Longbai Lufeng Titanium Industry Co., Ltd.

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Maintenance and Management System, "Panzhihua Fengyuan Mining Co., Ltd. Hazardous Waste Management System", etc. Meanwhile, each base...

The local government continues to strengthen responsibility-based management, establishes an environmental pollution prevention and control responsibility system, signs environmental protection target responsibility agreements, and formulates...

An environmental protection target and indicator assessment scheme will be implemented to strengthen environmental management supervision.

2. Environmental Management System

The company adheres to the "three-standard integrated" management system as its framework, continuously improves and optimizes its management model, and comprehensively enhances environmental protection.

Environmental management level. In 2024, Henan Baili New Energy Materials Co., Ltd. and Gansu Detongguo Titanium Metal Co., Ltd.

The company completed its first certification, and Henan Baililian New Materials Co., Ltd. and Yunnan Guotai Metal Co., Ltd. completed...

The certificate was renewed, and all other base certificates were within their validity period. The annual review was completed as required.


环境管理体系认证证书
证书编号：00124E3187982L/4100
兹证明
河南佰利联新材料有限公司
环境管理体系符合标准：
GB/T 24001-2016 / ISO 14001:2015
通过认证范围如下：
中国质量认证中心
CHINA QUALITY CERTIFICATION CENTRE


环境管理体系认证证书
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3. Strengthen the management of sudden environmental incidents

Each base has formulated an "Emergency Response Plan for Sudden Environmental Incidents" and continuously conducts routine emergency drills. Continuously improve its environmental risk prevention and emergency response capabilities. In 2024, Panzhihua Longbaifengyuan Mining Co., Ltd. Company, Yunnan Guotai Metal Co., Ltd., Gansu Detong Guotai Metal Co., Ltd., Wuding Guotai Metal Co., Ltd. The limited company has completed the revision of its emergency response plan; all other bases' emergency response plans remain valid. A total of [number missing] in 2024 [incomplete sentence]. A total of 192 special environmental emergency drills were conducted, with 3,798 participants.

Each base formulated hazard identification methods, disseminated them to work teams, conducted three-level hazard identification inspections and recorded the findings. Effectively reduce environmental risks, maintain environmental safety, and protect public health. The rectification rate of identified hazards by 2024 was [percentage missing]. 100%.

4. Implement upgrades and renovations of environmental protection facilities.

In 2024, the company continued to carry out the construction of environmental protection facilities and the upgrading and transformation of environmental protection technologies, and optimized the treatment process. Improve processing efficiency and comprehensively enhance the level of environmental governance.

unit	project	Results
Henan Baililian New Materials Co., Ltd.	Chlorination tail gas deep treatment	An investment of over 8.06 million yuan was made to add an electrostatic precipitator after the incineration desulfurization system. At the same time, modifications and relocations were made to the exhaust gas chimney and pipelines, as well as other measures, to optimize the pipeline layout and achieve in-depth treatment of the chlorination exhaust gas system.
Gansu Baililian Chemical Co., Ltd.	HRO concentrate recycling	An investment of 35.7 million yuan was made to add a new 300 m³/h HRO concentrate recovery and utilization production line, which will recycle the primary concentrate from the existing wastewater reuse system through membrane separation, thereby reducing wastewater discharge and improving water resource utilization. 

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Longbai Xiangyang Titanium Industry Co., Ltd.	Wastewater deep treatment cooling	An investment of 3.5858 million yuan was made to add a 2,400 m² cooling tower device to the wastewater deep treatment section . The construction was completed and put into operation in August 2024. The temperature of the treated wastewater discharged meets the requirements of the park's sewage treatment station for connection (ÿ40ÿ). 
Longbai Sichuan Mining and Metallurgy Co., Ltd.	New emergency pool built at the No. 2 processing plant	The newly built emergency response pool for enhanced recovery of fine-grained ilmenite can increase emergency response capacity by 2,500 m³, prevent pollutants from entering the external environment, and effectively improve environmental emergency response capabilities.
Longbai Lufeng Titanium Industry Co., Ltd.	Acidic wastewater treatment system capacity expansion project	The project, with an estimated investment of 8 million yuan, will increase the acidic wastewater treatment capacity by 400 m³/d by adding one set each of thickening tank, neutralization tank, press water tank, and filter press water tank, along with matching pumps and four plate and frame filter presses . A high-pressure reverse osmosis unit will also be added to recycle and reuse the concentrate
	Concentration of concentrate in the PT workshop of the titanium dioxide branch	from the secondary and tertiary reverse osmosis stages, reducing the pressure on the MVR treatment system, lowering operating costs, and decreasing raw water consumption. The project's annual economic benefit is estimated at 16.53 million yuan.

5. Carry out energy conservation, emission reduction, and carbon reduction projects.

In 2024, the company carried out energy-saving technological transformation, continuously improved equipment efficiency, strengthened maintenance management, and enhanced operation.

Improve water resource reuse rates through management, energy management, and supervision; achieve energy conservation and carbon reduction; and promote enterprise development.

Green and high-quality development.

company	project	Results
Jiaozuo Base	Energy-saving renovation of calcining kiln exhaust gas	An investment of 2.98 million yuan was made to increase the reuse of exhaust gas hot air and add metal felt filters. The exhaust gas from the No. 5 kiln is purified by particulate matter and reused at the kiln head, saving 548,000 cubic meters of natural gas annually and increasing electricity consumption by 229,000 kilowatt-hours annually, for a total annual energy saving of 637 tons of electricity. A desalination device was built using old reverse osmosis membrane elements to
Henan Baililian New Materials Co., Ltd.	Phase II high-salinity concentrate recycling and reuse	recycle and treat high-salt concentrated water, improving the water resource recycling rate and reducing wastewater discharge by 320,000 cubic meters annually.

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	Waste heat recovery and utilization of flash evaporation and steam-powder systems	Adding heat exchangers to collect waste heat from titanium tetrachloride preheaters, oxygen preheaters, reboilers, and flash evaporators will allow for the preheating of combustion air, materials, and makeup water, achieving cascaded energy utilization. This will save 5.11 million cubic meters of natural gas, 30.36 million kilowatt-hours of electricity, and 29,700 tons of demineralized water annually, resulting in an annual benefit of 29.82 million yuan. The company's existing titanium
Longbai Sichuan Titanium Industry Co., Ltd.	Technical upgrade of waste sulfuric acid recovery unit	liquid steam concentration process will be replaced with a titanium liquid MVR evaporation concentration process (MVR single unit capacity 120,000 tons). It is estimated that after the project is implemented, the comprehensive energy consumption of the concentration process section will be reduced by 66.45 kgce/t of product, saving 17.2458 million yuan in energy costs annually. Optimizing fans and
	Acid hydrolysis exhaust gas fan optimization and renovation	pipelines, and adding exhaust gas fans to replace some old fans, will reduce operating energy consumption, with an estimated annual electricity saving of 3.25 million kilowatt-hours. Through reagent
Gansu Bailian Chemical Co., Ltd.	Boiler feedwater chemical improvement	substitution and the use of by-product ammonia water in exhaust gas denitrification, the boiler blowdown rate will be reduced from 11.5% to 8.83%, reducing the use of demineralized water and steam, resulting in an annual benefit of 1.44 million yuan. Adding a frequency
	Adding frequency converters to water pumps at water treatment plants	converter to the control circuits of the secondary freshwater pump and the intermediate water pump, and to the control circuit of the secondary demineralized water pump, achieves load reduction, stable production, and energy saving, resulting in annual electricity savings of approximately 1.4431 million kWh. An investment of
Longbai Xiangyang Titanium Industry Co., Ltd.	Hydrolysis flash drying	approximately 4 million RMB was made to add a flash dryer to the hydrolysis process, utilizing the heat of the material itself for flash dehydration. The negative pressure flash evaporation process cools metatitanic acid from 110ÿ to 65ÿ, simultaneously increasing the acid concentration and achieving good energy-saving effects, with an estimated annual steam saving of 4147.2 tons and a reduction in carbon dioxide emissions of 1300.85 tons. An investment of 32.9 million RMB was made to adopt two gas
Longbai Sichuan Mining and Metallurgy Co., Ltd.	Distributed utilization and transformation of surplus coal gas energy	turbines, utilizing some surplus coal gas for power generation. The electricity is connected to the plant's 10kV power grid, with a power generation capacity of 3000kW per hour and a coal gas consumption of 4346 Nm^3 /h. From August to December 2024, a total of 833,000 kWh of electricity was generated, reducing carbon dioxide emissions by 189 tons. 
Panzhihua Longbaifengyuan Mining Co., Ltd.	Upgrading and Optimizing the Hot Water System for Flotation Reagent Preparation	With an investment of 1.4469 million yuan, the air source heat pump unit system replaced the original electric heating tube system, saving approximately 3.1 million kilowatt-hours of electricity annually.

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Longbai Lufeng Titanium Industry Co., Ltd.	The second phase of the MVR pretreatment water pump sealing water modification project replaced pure water with steam condensate.	The pure water used for sealing is replaced with production water; steam condensate is used as sealing water, storage tanks are made as water storage tanks, and water pumps are used to transport water, so as to realize the recycling of water resources.
	The P-364 motor was replaced with a variable frequency motor.	The P-364 pure water pump has been replaced with a variable frequency motor, which allows the motor to adjust its operating frequency and speed according to process requirements, making full use of electrical energy and reducing energy loss, saving approximately 61,600 kWh of electricity per year.
Yunnan Guotai Metal Co., Ltd.	Rooftop distributed photovoltaic power generation	The construction of a distributed photovoltaic power station on the factory rooftop generates electricity through the installation of photovoltaic modules, resulting in annual energy savings of 1351.9 tce and annual benefits of 770,000 yuan.
	Mud evaporation reduces power consumption	Centrifuges are used to perform open-circuit centrifugal separation of the bottom material in the slurry furnace, achieving solid-liquid separation of high-boiling-point substances. This effectively reduces the amount of slurry to be processed in the slurry evaporator, shortens evaporation time, reduces unit consumption, and effectively recovers vanadium slag resources after processing in the slurry evaporator. Annual energy savings are approximately 363.6 tce, with annual benefits of approximately 8.9452 million yuan. The on/off control method of the vacuum contactor in the reduction
	The project involves the modification of vacuum contactors in reduction and distillation furnaces to incorporate silicon controlled rectifiers.	and distillation furnaces has been changed to a thyristor-controlled system that adjusts the output current in real time based on temperature, achieving precise control of the heating element power. This results in annual energy savings of 146.13 tce, with annual benefits of nearly 500,000 yuan. The configuration scheme of the chlorine compressor under different pressure conditions has been
	Upgrading and renovation of the chlorine compressor in the No. 1 electrolysis workshop	optimized, effectively improving the on-site working environment and enhancing production stability. This results in annual energy savings of 147.33 tce, with annual benefits of 500,000 yuan. An investment of 20 million yuan was made to construct four 1000kW gas-fired internal combustion engine units and their
Wudingguo Titanium Metal Co., Ltd.	Coal gas power generation project	supporting facilities, improving the utilization rate of surplus coal gas, reducing electric furnace exhaust emissions, generating 29.7792 million kWh of electricity annually, and reducing purchased electricity costs by nearly 10 million yuan. An investment of 6.12344 million yuan was made to replace the old Y-series motors with new energy efficiency level 2 switched reluctance motors, with an average energy
Gansu Detongguo Titanium Metal Co., Ltd.	Energy-saving motor retrofit	saving rate of 31.16%, an estimated annual energy saving of 8.07 million kWh, and an annual carbon emission reduction of 4,726.19 tons.

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Chaoyang Dongzirconium New Materials Co., Ltd.	Steam recycling	By reusing steam from the extraction workshop, natural gas consumption is reduced, saving 5,400 tons of water and 5% of natural gas annually.
Henan Baili New Energy Materials Co., Ltd.	800t/d Concentrate Water Reuse	An investment of 666,000 yuan was made to add a high-efficiency reverse osmosis unit above the existing pure water equipment's reverse osmosis unit, thereby achieving further purification of concentrated water, improving water resource utilization, and generating an annual benefit of 660,000 yuan.
	Energy-saving motor retrofit	An investment of 3.3105 million yuan was made to replace 27 sets of ordinary motors with high-efficiency energy-saving motors, resulting in annual electricity savings of approximately 4.1094 million kWh and a reduction in annual carbon dioxide emissions of 2202.23 tons. An
Henan Zhongtan New Material Technology Co., Ltd.	The cooling water circulation system of the cold water pool in the molding workshop was upgraded and renovated.	investment of 300,000 yuan was also made to construct a water circulation system and add cooling towers, ensuring that cooling water in the cooling pools and dredging pools is self-circulated and not discharged externally, thus improving cooling efficiency and significantly reducing the consumption of electrode cooling water, resulting in an annual reduction of 3600 tons of water consumption.

6. Strengthen noise control

company	project	Results
Longbai Sichuan Titanium Industry Co., Ltd.	Calcination kiln tail powder pulping and noise reduction	Replace the motors of the slurry pumps for collecting wastewater from the tail powder of calcining kilns #3 , #4, and #5, and set automatic start/stop based on liquid level to reduce the probability of empty pump operation and reduce on-site noise.
Gansu Bailian Chemical Co., Ltd.	Add a soundproof cover to the ball mill	Adding a soundproof cover to the ball mill in the original ore plant significantly reduced equipment noise.
Panzhihua Longbaifengyuan Mining Co., Ltd.	Noise control in ore dressing plants	The construction of a new soundproof room will reduce the direct noise exposure of employees, improve the workshop working environment, and increase employee satisfaction.
Henan Baili New Energy Materials Co., Ltd.	Noise reduction for air compressors at the water treatment station in the water treatment section	An investment of 100,000 yuan was used to install soundproof walls on two air compressors at the water treatment station in the water treatment section. After the renovation, the noise on both sides of the walls was significantly reduced.
Henan Longbai New Material Technology Co., Ltd.	Noise reduction of air compressors in Zone 1D of dry process workshop	An investment of 20,000 yuan was made to reduce noise in the air compressor of Zone 1D in the dry process workshop, which significantly reduced noise and effectively improved the working environment for employees.

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7. Scientific prevention and control of air pollution

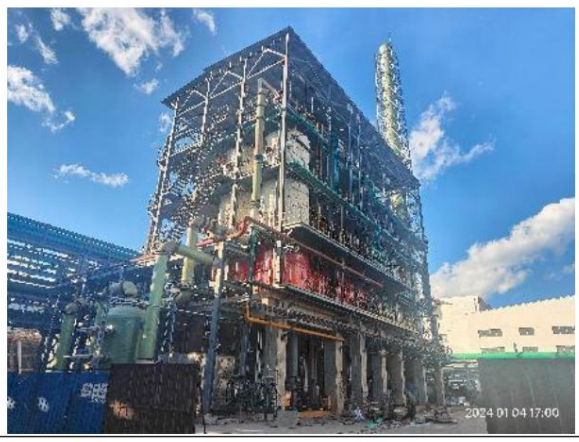
The company actively responded to the national air pollution prevention and control campaign implementation plan, adopting scientific treatment and source prevention measures.

We will focus on key areas and promote overall progress to fully implement the rectification projects, exert continuous efforts, and concentrate our resources on implementation.

Air pollution control.

company	project	Results
Henan Baililian New Materials Co., Ltd.	Dust control in rotary kilns	An investment of 7.7 million yuan was made to install four sets of dust removal facilities at the kiln heads and tails of six rotary kilns and six cooling kilns, effectively improving the regional environment.
Longbai Sichuan Titanium Industry Co., Ltd.	Dust control in titanium concentrate warehouse	By adding new gas collection pipes, installing boundary valves on waste gas collection pipelines, and adding enclosures at the mine entrance, the equipment can operate independently, increase the ventilation volume and negative pressure, and improve dust collection efficiency.
Gansu Baililian Chemical Co., Ltd.	Negative pressure collection of exhaust gas from high and low concentration wastewater pools	Adding negative pressure collection devices and reducing high- and low-concentration wastewater pools have resulted in significant treatment effectiveness.
Longbai Xiangyang Titanium Industry Co., Ltd.	New wet desulfurization tower for thermal power plant	An investment of 2.94 million yuan was made to add a wet desulfurization system for the exhaust gas of the thermal power boiler as a backup, increasing the desulfurization tower's processing capacity and ensuring that the boiler load and environmental protection indicators meet stable emission standards.

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Longbai Sichuan Mining and Metallurgy Co., Ltd.	A new waste gas collection and treatment system has been added to the titanium ore beneficiation workshop of the secondary ore beneficiation plant.	An additional waste gas treatment facility will be installed in the main system flotation plant area to increase the processing air volume by 60,000 m³/h, improve the collection and treatment effect of flotation waste gas, improve the production environment, and protect the health of employees.
	Environmental dust removal upgrade of the 43-meter main electric furnace building of the titanium chloride slag plant.	By adding a 50,000 m³/h dust collector to the 43-meter platform, specifically targeting the dust collection systems on the 43-meter and 34.5-meter platforms, the dust collection pressure was reduced, dust on-site in the smelting workshop's feeding system was decreased, and fugitive emissions of waste gas were strictly controlled. Two wet dust collectors were added to the primary crusher; windbreak and dust suppression nets were installed
Panzhihua Longbaifengyuan Mining Co., Ltd.	Control of fugitive dust in crushing workshop	in the raw material storage yard and powder ore silos, with additional spray guns mounted on them; and a high-pressure micro-mist system was added to the No. 13 conveyor. These measures successfully solved the problems of insufficient dust collection capacity of the primary crusher's rollers and severe dust pollution in the workshop, company office area, and living area, reducing the on-site dust concentration from 0.17 mg/m³ to 0.13 mg/m³. An investment of 20 million yuan was made to construct two sets of chlorination tail gas incineration units. After incineration and flue gas treatment, the tail gas emission concentration was effectively reduced, while
Longbai Lufeng Titanium Industry Co., Ltd.	Exhaust gas incineration desulfurization and waste heat recovery	simultaneously generating 14 t/h of steam. 

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	Upgrade the ash silo by adding a bag filter.	Adding a baghouse dust collector to the top of the ash silo, replacing the filter bags of the original baghouse dust collector, and pouring water around the foundation of the air box effectively prevents dust generation.
Chaoyang Dongzirconium New Materials Co., Ltd.	Flue gas absorption in reduction and purification process	An investment of 600,000 yuan was made to add a flue gas scrubbing absorption tower for the reduction and purification process, which absorbs hydrogen chloride gas from the reduction and purification process, thereby reducing environmental pollution and harm to human health.
Henan Baili New Energy Materials Co., Ltd.	Upgrading and retrofitting calcination and flash evaporation exhaust gases	Four streams of furnace exhaust gas were merged into the flash dryer outlet, while the furnace exhaust gas was discharged separately. The diameter of the furnace exhaust gas outlet was reduced from 2m to 0.95m. By replacing PTFE filter bags and modifying the defects of the flash dust collector, the dust emission concentration inside the furnace and at the flash dryer outlet was reduced. An SCR facility was added to the calcination section , achieving a NOx removal efficiency of over 80%. The north silo of the No. 1 molding line was modified, including improving the silo discharge
Henan Zhongtan New Material Technology Co., Ltd.	Modification of the North Material Warehouse of Molding Line #1	angle; adding a discharge dust hood and partially sealing the discharge port; and modifying the return pipe after the pre-mill silo was full to enter the north silo and then enter the elevator via an auger. After the modification, the frequency of manual silo cleaning was reduced, and the dust control effect was significant.

8. Strengthen green ecological protection

Carry out tree planting and greening activities to build an ecological garden-style Longbai

(1) Comprehensive utilization of titanium gypsum can effectively improve the ecological environment.

The company actively explores ways to utilize titanium gypsum resources and scale up its high-value utilization, making full use of titanium gypsum.

Leveraging its water-saving and soil-improving properties, in 2024, Longbai Sichuan Titanium Industry Co., Ltd. tailored its approach to local conditions, creating a "transformation" [product/service].

The "turn waste into treasure, recycling" green project included land reclamation, restoring approximately 340 acres in 2024.

Approximately 1.25 million tons of titanium gypsum have been comprehensively utilized; Gansu Baililian Chemical Co., Ltd. is actively exploring the applications of titanium gypsum in agriculture.

Feasibility of application and its application in water-saving greening, conduct experiments on titanium gypsum greening planting, and fully promote the planning.

Model-based, low-cost urban greening, Gobi Desert reforestation, and the construction of a green ecological barrier in Northwest China.

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(2) Carry out tailings dam management and build green mines

Panzhihua Longbaifengyuan Mining Co., Ltd. utilizes ultra-large magnetic separators for iron removal and enhanced recovery of ilmenite.

Technological upgrades, such as process improvements and optimization of strong magnetic processes, have effectively increased the yield of mineral products.

This reduces tailings emissions and minimizes the environmental impact of tailings storage. Simultaneously, the wastewater from the tailings pond is used for...

In the mineral processing steps such as washing and grinding, 100% of the wastewater is recycled, reducing the use of fresh water.

Improve water resource utilization efficiency. In terms of ecological restoration, the company adopts a "production-while-restoration" model.

By covering tailings ponds, production workshops, and other areas with soil and restoring vegetation, the greening area can reach 100%.

The company actively utilizes technologies such as the Internet of Things and online monitoring system platforms to build smart mines and improve ecological management.

The intelligent management level of the tailings dam promotes the construction of green mines. The Niuchangping tailings dam, with its scientific design for separating clean and polluted water,

It achieves closed-loop internal circulation and zero discharge of leachate within the reservoir, while external flood interception dams and trough-type flood interception channels are used.

It effectively intercepts external rainwater, reducing the possibility of rainwater being polluted, and also reduces the amount of water in the reservoir.

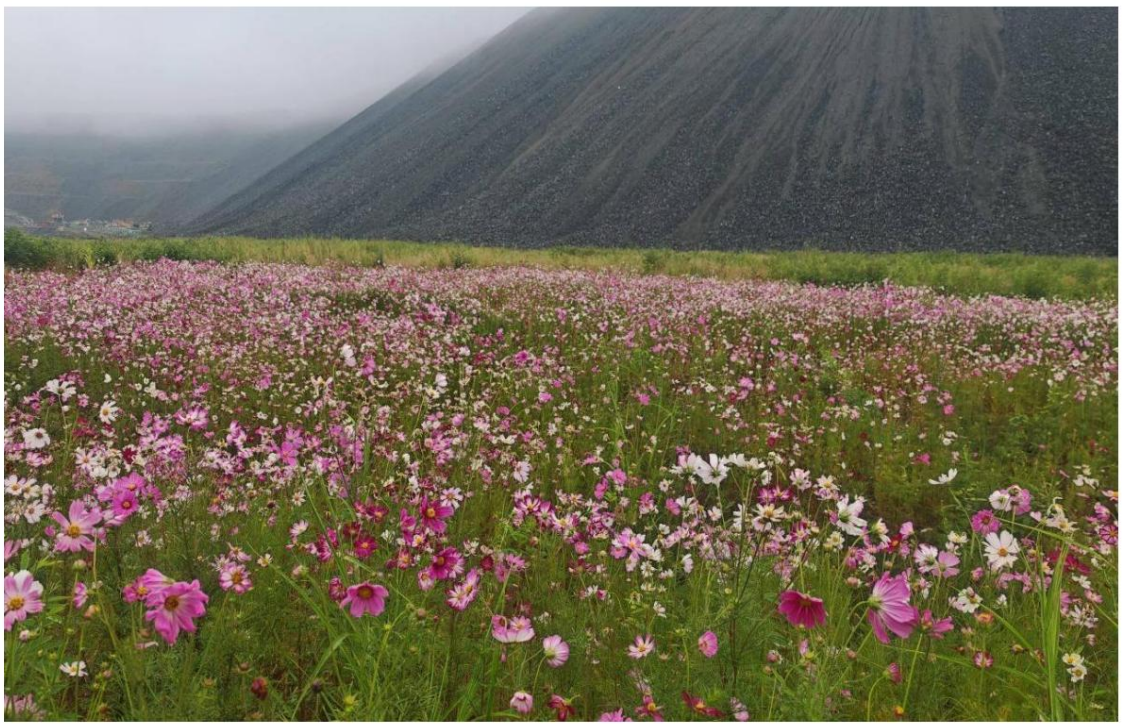
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Longbai Sichuan Mining and Metallurgy Co., Ltd. invested 2.6446 million yuan in restoration funds to complete the open-pit mining of the mineral products company.

The western and southern slopes, the Zhujia Pass spoil heap platform area, and the terraced slopes of the Reshuitang spoil heap are all areas where vegetation has been generated.

285.32 acres of land were restored, and 98,000 plants were planted.



(3) Carry out tree planting and greening activities to build an ecological garden-style Longbai.

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The company adheres to the principle of "building high-quality greening projects and creating an ecological garden-style industrial park," and deeply...

We will implement greening, beautification, and environmental improvement work in the factory area, with dedicated personnel for management, meticulous maintenance, scientific assessment, and supervision.

This represents a comprehensive upgrade of the company's image. In 2024, the group's main task was completing the greening of Longbai Avenue in the Jiaozuo Industrial Park.

Upgrading and renovating the greenery along Ideal Road, and planting and maintaining greenery along Deyang Riverside Road, riverbanks, and wetland parks.

Protection. Simultaneously, a misting system will be added, and the water system will be renovated to create an ecologically livable and green Longbai. A misting system will be added along Longbai Avenue.

The Sen System completed the water system renovation of Future Avenue, and upgraded the green belts of Longbai Avenue and Ideal Road, improving the factory area.

The air quality is improved to achieve the effects of beautifying the environment, moisturizing and preventing dust, and preventing heatstroke and cooling down.



Add a fogging system to improve air quality



Green landscape

9. Achieve green office practices

To achieve paperless office operations, the company utilizes automated office automation (OA) systems, ERP systems, video conferencing systems,

Through systems like AIData, electronic attendance, and corporate email, we comprehensively enhance the level of intelligence and informatization, while saving costs.

While reducing production costs, we will also improve work efficiency, creating a highly efficient, energy-saving, and environmentally friendly environment for the company's overall operation and management.

Office environment.

10. Conduct environmental protection publicity.

The company earnestly carries out environmental protection publicity work, continuously improves the ecological awareness of its employees, and utilizes the company's...

Bai Academy's online platform and offline training bases organized 311 environmental protection training sessions in 2024, accumulating a total of [number missing] training sessions.

17,059 people.

June 5, 2024, marked the 53rd World Environment Day. The Group promoted the theme of "Comprehensively Promoting Green and Low-Carbon Development."

The theme is to organize a series of activities for "June 5th Environment Day," including outstanding practices in "green and low-carbon development."

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Examples of submissions include: "Beautiful Hometown, With You and Me" themed photography, essays, paintings, calligraphy, posters, and green low-carbon works.

Carbon-carbon cycling activities, visits to outstanding and advanced units and environmental protection facilities open to the public, and the "Green Journey for Children, Family and Enterprise Together" initiative.

"Build" employee parent-child themed activities, environmental knowledge lectures, environmental knowledge quizzes, and environmental protection publicity in communities and schools.

This will promote the dissemination and learning of ecological and environmental protection concepts.

(III) Achievements in environmental protection

In 2024, Longbai Group actively implemented environmental protection measures focusing on wastewater treatment and recycling, and advanced waste gas treatment.

A total of 45 environmental protection projects were upgraded and implemented, resulting in a 37% year-on-year decrease in COD emissions from wastewater and a reduction in particulate matter emissions from waste gas.

Both SO2 and NOx emissions meet the annual permitted emission limits. Longbai Group Co., Ltd. has been rated as a national...

Henan Bailian New Materials Co., Ltd. is a Class A green factory, a provincial-level green factory, and a recipient of the National Environmentally Friendly Enterprise certification.

Longbai Group and Longbai Co., Ltd. were selected as one of the first batch of "zero-carbon" and "super energy-efficient" factories in Henan Province.

Sichuan Titanium Industry Co., Ltd. was rated as a national-level green factory, and Jiaozuo Zhongzhou Carbon Co., Ltd. was rated as a national-level green factory.

Provincial-level green factory.

IX. Innovate Safety Culture to Build a Safe Longbai

(I) Safety Concept

All accidents are preventable; safety management starts with me.

The head of the organization is responsible for safety work, and managers at all levels are responsible for the safety of their respective areas of responsibility.

Safety first, then production; no production without safety.

Unsafe acts must be stopped, and potential hazards must be rectified in a timely manner;

I am responsible for my own safety, and I am also responsible for the safety of others.

Safety is a condition of employment, and all employees must receive safety training;

Wherever you think, safety follows.

Intrinsic safety originates from design, but its key lies in implementation;

Integrate contractor safety management into the enterprise's safety management system;

Do not refrain from doing something because it is easy or small, nor do something because it is dangerous or small.

(ii) Measures to fulfill safety responsibilities

1. Facilitate the processing of qualifications and licenses to ensure the Group's compliant production and operation.

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The Group is steadily advancing the processing, modification, and renewal of qualifications and licenses for its subsidiaries, ensuring the smooth operation of all qualifications and licenses.

The effectiveness.

time	unit	Qualifications and licenses
Longbai Panzhihua Mineral Products Co., Ltd. in January		Complete the renewal of the safety production license
In February,	Longbai Sichuan Mining and Metallurgy Co., Ltd., Hebei Nanlongbai Intelligent Equipment Manufacturing Co., Ltd.	Complete the renewal of the safety production license
In April, Henan Baililian New Materials Co., Ltd. completed the change of the scope of its safety production license.		
In May, Yunnan Guotai Metal Co., Ltd. passed the occupational health and safety management system certification.		
June	Longbai Lufeng Titanium Industry Co., Ltd.	Complete the renewal of the hazardous chemicals registration certificate
July	Longbai Xiangyang Titanium Industry Co., Ltd., Longbailu Fengtai Industry Co., Ltd., Yunnan Guotai Metal Joint-stock company	Complete the renewal of the safety production license
August	Longbai Xiangyang Titanium Industry Co., Ltd.	Complete the application for a hazardous chemicals business license

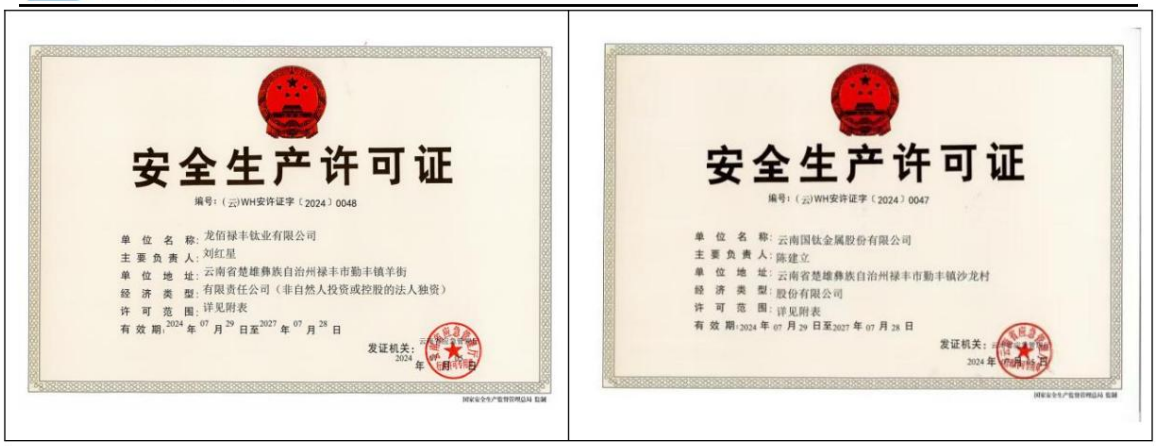








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2. Carry out safety education and awareness activities in a solid manner to create a strong safety culture atmosphere.

To create a harmonious and safe working environment and foster a strong safety culture, Longbai Group adheres to a systematic approach.

Activities are carried out using a unified approach and innovative formats, such as the annual "Safe Production Month" and "Elimination of Fire Safety" campaigns.

The "Safety Prevention Month" campaign, held in June 2024, focused on "Everyone Talks About Safety, Everyone Knows How to Respond to Emergency Responses—Ensuring Smooth Lifeline."

Organizing activities under the theme of "Tao" including an essay contest titled "I am a Safety Manager," a one-legged escape game, and demonstrations of safety measures.

Novel and informative safety education activities, such as field testing and observation events, are used to disseminate safe production practices to company employees.

Promote production concepts, methods, and behavioral norms; publicize safety production policies and regulations, safety science knowledge, and hazardous chemical safety.

Knowledge, emergency response, self-rescue and mutual rescue methods, etc., to improve the safety awareness of cadres and employees and effectively enhance the group's safety level.

The company's safety management level and risk resistance capabilities.



Longbai Group Safety Production Month Launch Ceremony Oath-Taking Site

Excellent practice cases:

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Building a solid safety defense line together with families and enterprises.

To promote the group company's safety culture and demonstrate humanistic care for safety, each base organizes pre-shift meetings for employees.

Safety pledge, establishing a WeChat group for families and businesses, creating a "family wall," holding "family open days," and convening family meetings.

Various methods, including symposiums, were used to actively carry out work related to the "family-enterprise co-construction" of safety. Some units have expressed their support for the "family-enterprise co-construction" of safety.

The "joint construction" work has been innovated, and joint construction activities suitable for the characteristics of its own base have been identified. (This is from the Sichuan Mining Group.)

The metallurgical company formulated the "Peace of Mind Card" reward mechanism selection scheme and carried out the selection process for companies with a long history of no violations.

Employees involved in accidents and incidents will be commended and rewarded; Panzhihua Baifengyuan Mining Co., Ltd. invited [participants] to [participate in the event].

A total of 23 employee families participated in the event themed "Families and Enterprises Join Hands to Build Safety, and a Happy Life Lasts Forever" and "Families and Enterprises..."

The company held a "Family Open Day and Family Forum" event, themed "We Are One Family." Employees' families were invited to visit the factory area and get up close and personal with the company.

Experience and understand the work environment of relatives, feel the company's safety culture, and after the visit, the company organized a fruitful activity.

A variety of fun family activities have been offered, and each subsidiary has developed its own unique activities. All units have brainstormed and collaborated.

The innovative approach and innovative highlights have set a good example. Through the "family-enterprise co-construction" of safety...

The implementation of related work has further strengthened communication and exchange between the company and its employees' families, and improved the well-being of employees' families.

The awareness and support for the company's safety culture greatly enhances employees' work motivation and sense of belonging.



Panzhihua Baifengyuan Mining Co., Ltd.: Held a family meeting

Release Day Activities



Safety Parent-Child Wall

3. Strengthen emergency rescue drills to comprehensively improve emergency response capabilities.

In 2024, the group conducted emergency drills efficiently, carrying out a total of 398 comprehensive and specialized emergency drills across the group.

(17 special drills for major hazard sources were conducted), with 8,491 participants, effectively verifying the relevance of the drill plans.

Practicality and operability enhance personnel's emergency response capabilities and coordination skills in emergency situations, thereby strengthening...

Personnel's risk awareness and self-rescue/mutual-rescue capabilities. During the 2024 Fire Safety Awareness Month, all units of the group carried out "No Fire" activities.

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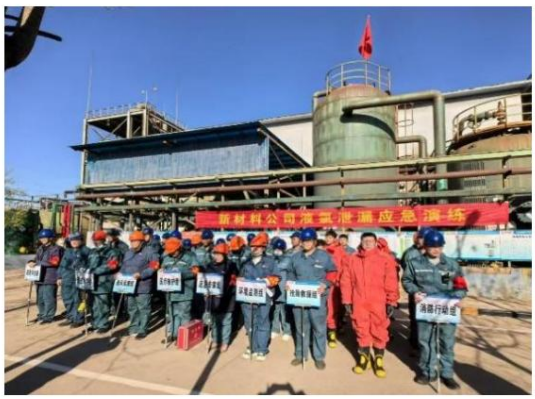
A fire emergency drill conducted without a script, rehearsal, or prior notice, simulating a real accident.

The exercise fully tested the team's collaboration and emergency response capabilities, ensuring that the drills were not merely a formality and achieved tangible results.

The effect of "discounting" is achieved. At the same time, all units strengthen the capacity building of full-time and part-time fire and rescue teams, benchmarking against local government standards.

The dedicated fire and rescue team improves the professional skills of its members through a "training + assessment" approach, and is gradually building a comprehensive [system/mechanism].

Rescue team.

	
Longbai Xiangyang Titanium Industry Co., Ltd.: Fire Accident Emergency Drill	Henan Baililian New Materials Co., Ltd. Liquid chlorine leak emergency drill

4. Establish role models and benchmarks to motivate employees to work safely.

Safety in production hinges on the front lines. To solidify the foundation of safe production, the Group has innovated its safety incentive mechanism, specifically for 2020.

Workshops under the Group that have not experienced any production safety accidents between July 2020 and June 2024 have been awarded [certification/certification].

The workshop was awarded the honorary title of "Zero Accident Workshop" and presented with a banner, and the personnel responsible for safety management were rewarded.

In addition, to leverage the exemplary role of outstanding individuals in safe development, a system was established for 96 outstanding safety officers at the group level.

Making armbands and hat stickers increases the pride and sense of honor of outstanding safety officers, inspiring employees at all levels to strive to be safety belts.

Enhancing the self-awareness and initiative of leaders and fostering a stronger safety culture.







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5. Promote the construction of an intelligent management and control platform for safety risks, and strengthen monitoring, early warning, and digital transformation.

In 2024, Jiaozuo Base, Henan Baililian New Materials Co., Ltd., Longbai Lufeng Titanium Industry Co., Ltd., etc.

The organization has fully established an intelligent safety risk management and control platform, effectively utilizing basic safety management and major hazard source safety management.

Comprehensive management, dual prevention mechanism, personnel positioning, intelligent inspection, special operation permits and operation process management.

Video surveillance and intelligent analysis, training management, contractor management, and personnel gathering risk assessment based on personnel positioning systems.

In scenarios such as risk monitoring and early warning, the "Industrial Internet + Hazardous Chemical Safety Production" technology system and application are utilized.

An ecosystem that promotes the digitalization of basic safety management, the precision of risk early warning, the systematization of risk control, and the management of hazardous operations.

Unmanned operations enhance the ability to perceive, assess, monitor, warn, and respond to safety risks, thereby improving safety production.

The level of informatization, digitalization, and intelligentization of production management.





6. Launch a fundamental solution campaign to improve the level of inherent safety.

In accordance with the requirements of the "National Three-Year Action Plan for Addressing the Root Causes of Work Safety", Longbai Group, in conjunction with its production...

The implementation plan and task list for the three-year action plan to fundamentally improve work safety were actually issued, and a system was established with each subsidiary taking the lead.

The organizational structure for the three-year action plan to fundamentally address safety production deficiencies should be clearly defined, with the responsible person serving as the team leader, and the structure of leadership at all levels should be clearly defined.

The responsibility is to organize and convene a special meeting to deploy and mobilize efforts for addressing the root causes of the problem, and to make specific plans for the implementation of the campaign.

Arrangements: Each subsidiary will conduct safety training for its key personnel and all employees, focusing on the main objective of addressing the root causes of safety issues in production.

Nine major tasks, including education and training, strengthening the construction of the emergency management system, and the dynamic elimination of major accident hazards.

Balancing development and safety, adhering to the red line mentality, establishing a responsibility system for major accident hazards, and enhancing safety management capabilities.

The level of security has been significantly improved. The company has adopted a comprehensive approach to address major and significant security risks, including human, technological, and engineering security measures.

The management and prevention measures have begun to show results, and the level of inherent safety has been greatly improved.

(III) Strengthen occupational health management for employees and achieve full coverage of health training.

In 2024, the Group, adhering to the principle that "safety in production is paramount and employee health is of utmost importance," thoroughly implemented...

To implement the requirements of the Occupational Disease Prevention and Control Law, we will continuously improve the occupational health management system and promote occupational health work.

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Reaching a new level. Zero new cases of occupational diseases were achieved throughout the year, and employee health checkup coverage and occupational health training coverage both reached [percentage missing].

100%.

1. Promote the construction of healthy enterprises and improve the level of health management.

To comprehensively safeguard the physical and mental health of employees, achieve dignified employment, and continuously improve the overall health management of the group.

At the management level, the company always adheres to the people-oriented philosophy, placing employee health management as a top priority. This is achieved through regular...

Providing free health checkups for all residents not only establishes a comprehensive health monitoring system, but also enables "early prevention and early detection."

The "early detection, early treatment, and early recovery" protective loop extends care to employees' families, especially those with multiple needs.

Yuan's proactive measures in building a healthy enterprise have yielded significant results. In March, Longbai Xiangyang Titanium Industry Co., Ltd. achieved remarkable success by completing [its initiatives/measures].

A sound health management system, abundant health promotion activities, and a good working environment enabled Hubei Province to successfully pass the "Hubei Province Health Management System" assessment.

In May, Longbai Lufeng Titanium Industry Co., Ltd. was recognized as a "Provincial Healthy Enterprise" in terms of its outstanding performance in employee health care and occupational health prevention.

Its outstanding performance in areas such as environmental protection and corporate culture building earned it the title of "Yunnan Province Healthy Enterprise"; in August, Yunnan...

Nanguo Titanium Co., Ltd., with its solid foundation in health management and innovative health service model, was recognized as a "Chu" (referring to a specific type of health service company).

"Xiongzhou Health Enterprise"; In November, Gansu Detong Guotai Company was recognized for its outstanding health management practices and significant health benefits.

Its achievements in health construction have earned it the title of "Excellent Enterprise in Health Enterprise Construction Evaluation in Jinchang City".



2. Popularize occupational health knowledge and improve employees' health literacy.

In April 2024, the company launched a campaign themed "Adhering to Prevention First, Safeguarding Occupational Health" for occupational health.

During the "Disease Prevention and Control Law" publicity week activities, 301 online and offline special training sessions were organized, with a total of 18,527 people receiving education.

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Occupational health experts were invited to interpret regulations and protective knowledge, and 4,116 brochures were distributed, effectively improving employees' occupational health awareness.

Business health awareness.

The company, in conjunction with the Red Cross Society, conducted first aid training at the Jiaozuo Industrial Park, training 50 certified first aiders and improving their skills.

Employees' self-rescue and mutual-aid capabilities in the event of emergencies; Longbai Sichuan Titanium Industry Co., Ltd. signed a cooperation agreement with Mianzhu Third Hospital.

An agreement was drawn up to provide employees with regular mental health knowledge training, organize psychological self-testing activities, and promptly identify employee issues.

We assess employees' mental well-being and provide professional psychological counseling services to ensure they receive adequate support and care at a psychological level.

For key populations suffering from specific diseases such as heart disease and hypertension, Panzhihua Baifengyuan Mining Co., Ltd.

The company implements a refined health management strategy, assigning dedicated personnel daily to closely monitor the work status of key personnel, and

We promptly identify potential risks and provide corresponding support and adjustments as needed, striving to protect employee health while...

To maintain work efficiency and safety.

At the same time, the company has strengthened the upgrading and renovation of existing equipment and facilities, and carried out in-depth special operations for sound insulation, noise reduction, and dust removal.

Actions to protect employees' occupational health rights.

Excellent practice cases:

Integrate safety management systems to effectively reduce the burden on frontline employees.

Longbai Group is a member of the China Chemical Safety Association and the Henan Chemical and Pharmaceutical Safety Production Association.

In 2024, the Jiaozuo base was selected as a pilot unit to carry out the integration of the safety management system, focusing on "management institutionalization and systematization".

Guided by the overall principle of "streamlining processes and standardizing procedures and forms," the management procedures and systems for each management element are clearly defined.

This involves defining the responsibilities of each unit, streamlining the operational processes of various elements, and solidifying the operational forms for each management process.

Ultimately, this will enable the use of a single set of institutional forms to support the requirements of multiple standards, integrating safety production standardization with the current group's practices.

The implementation of DuPont's safety management improvement and the "Guidelines for Safety Management of Chemical Processes" (AQ/T 3034—2022)

A horizontal comparison of the various management elements within the dual prevention system was conducted to identify commonalities and acknowledge differences, focusing on risk identification, risk control, and...

With risk inspection as the core, and combined with the PDCA continuous improvement cycle, the management requirements of the four elements are analyzed to identify commonalities.

Focusing on key areas, and following a systematic approach, holistic methodology, and principle of simplicity, safety standardization is integrated with the HSE management system.

By organically integrating system elements, we can ensure the high-quality operation of the system, effectively reduce the workload of frontline staff, and improve efficiency.

Safety management level.

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10. Promote decent employment and build a culturally rich Longbai.

(I) Labor Practice Concepts

The Group earnestly implements the General Secretary's important statement on "striving to enable workers to achieve decent work and all-round development".

The statement pledged to respect and uphold all internationally recognized human rights, abide by relevant international conventions on labor and human rights, and respect...

We prioritize and protect the legitimate rights and interests of our employees, and will never participate in any actions that disregard or trample on human rights. We adhere to the principle of "people-oriented" management.

Adhering to the development philosophy and the principles of fairness and justice, we advocate equal and non-discriminatory employment policies and earnestly implement the principle of "based on facts".

Our personnel management policy is "recruitment, legal employment, adherence to regulations, performance-based compensation, optimized structure, and comprehensive employee training."

We will create a favorable career development platform for our employees. At the same time, we will improve our compensation and benefits system and strengthen our democratic mechanisms.

Employees create a safe and harmonious working environment.

(ii) Labor Practices

1. Ensure compliance with labor and employment regulations

The company strictly adheres to the "Labor Law of the People's Republic of China" and the "Labor Contract Law of the People's Republic of China" and

Local labor regulations ensure full compliance in employment management: First, they legally sign standard labor contracts with employees.

Secondly, employers must ensure timely and full payment of wages and legally provide employees with the necessary benefits.

Procedures for enrolling in and paying social insurance and housing provident fund contributions; thirdly, in accordance with the "Labor Law of the People's Republic of China" and other laws.

The company has formulated an "Employee Handbook" to continuously standardize the entire process of labor contract management. Safety is always a top priority for the company.

With a focus on building a production management system and an employee rights protection mechanism, efforts will be made to improve labor rules and regulations and optimize...

Measures such as employee communication channels are used to systematically build harmonious labor relations and comprehensively protect the legitimate rights and interests of employees.

2. Implement a salary incentive mechanism

A sound compensation system is a core driver of employee motivation. The company consistently adheres to a competency-based and performance-driven approach.

Guided by this principle, we will comprehensively promote the reform of the salary and benefits system, innovate and implement a broadband salary system, and break through traditional job level barriers.

Promote the development of a digital payroll management platform and build a differentiated payroll system that is centered on job contributions and adapts to the diverse characteristics of talents.

The compensation mechanism aims to achieve a virtuous cycle of value creation, evaluation, and distribution; based on job value, qualifications, and...

The three-dimensional performance evaluation model constructs a composite compensation structure that combines basic guarantees with incentives for growth.

Improve the welfare and security system, establish a distribution system based on ability to determine job level and performance to determine salary, and form a market-oriented system.

A dynamic incentive mechanism for market competitiveness; at the same time, constructing multi-dimensional career development channels to ensure that employee income is commensurate with career value.

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The value has achieved continuous and steady growth, and the company strictly adheres to the three-dimensional payment system of "job value, performance contribution, and competence".

The salary system must resolutely eliminate discriminatory treatment based on gender, age, race, religion, or disease.

3. Adhere to the principle of fair management.

The principles of "fairness, impartiality, and transparency" are the cornerstone of the company's operation and management, and the protection of employee rights. Through constructing...

Establish a scientific recruitment and promotion management system to fully standardize the talent selection mechanism. From the initial recruitment...

The company implements a strict, transparent management system throughout the entire recruitment process, ensuring that all recruitment activities are conducted through the company's office system.

Key announcements, results of competitive selection for professional and technical positions, lists of candidates entering the cadre reserve pool, and decisions on the appointment and removal of management personnel, etc.

Personnel information is made public, and a comprehensive oversight mechanism is established. This system ensures equal participation from all organizational members.

While ensuring the rights of talent, transparent operations also effectively prevent risks related to oversight in personnel selection and job competency, truly safeguarding the rights of talent.

The credibility of the selection process.

4. Ensure employees have rest and leave.

The company strictly adheres to national labor laws and regulations and has formulated and implemented the "Attendance and Leave Management System".

To build a healthy employment system, the following measures will be implemented: 1. Regarding working hours management, overtime hours will be strictly controlled, and employees will be subject to strict control during the reporting period.

1. Work hours per week are strictly controlled to within 44 hours, and employees are guaranteed at least one day off per week; 2. Salary

In terms of benefits, a digital payroll system is used to ensure that overtime pay and statutory holiday overtime compensation are paid in full.

3. Regarding leave rights, paid leave such as annual leave, maternity leave, and paternity leave will be fully implemented, and a regular leave system will be established.

Spend

5. Establish a systematic talent cultivation mechanism

In 2024, the Group innovated its talent cultivation and incentive mechanism, successfully attracting Taiwanese technical experts and mining management specialists.

Experts include SAP specialists and supply chain management specialists; the postdoctoral workstation attracts outstanding postdoctoral researchers.

We will focus on research into various key technologies; establish a multi-dimensional evaluation system; and systematically recognize and commend model workers and advanced individuals.

Worker Award, Pioneer and Innovator Award, Loyalty and Dedication Award, Craftsman of the Year, Expert of the Year, Science and Technology Pioneer, Supplier

The selection of outstanding sales performers and other honors effectively motivates employees to take initiative in the company's production, operation, and development; it also promotes the spirit of role models.

The organization advocates that all employees take advanced role models as benchmarks, promote the spirit of model workers, the spirit of labor, and the spirit of craftsmanship, and cultivate...

Original master craftsmen and skilled personnel; improve the vocational skills training system, strengthen the construction of a high-level talent pool, and support

We encourage employees to participate in evaluations for authoritative domestic and international awards, forming a comprehensive talent development system that combines spiritual recognition with material incentives.

mechanism.

(III) Upholding human rights

1. Resolutely prevent any infringement upon the legitimate rights and interests of female workers and underage workers.

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The company strictly adheres to the "Regulations on Labor Protection for Female Employees," the "Law on the Protection of Women's Rights and Interests," and the "Prohibition of Child Labor."

In accordance with laws and regulations such as the "Regulations on the Prevention of Child Labor," enterprises should earnestly fulfill their primary responsibilities. Regarding employment management, a sound system for preventing child labor should be established.

The mechanism aims to eliminate child prostitution by standardizing recruitment procedures, improving onboarding review processes, and strengthening identity verification.

Risks associated with the use of labor. Regarding the protection of female employees' rights, a specialized training mechanism has been established, and the "three prohibitions" are strictly enforced.

Principles: Female employees are prohibited from being assigned to jobs with a physical labor intensity level of four; female employees during menstruation and pregnancy are prohibited from...

Work involving excessive labor intensity is prohibited; it is forbidden to reduce wages or terminate employment due to legally stipulated circumstances such as maternity leave or breastfeeding period.

relation.

2. Harassment and abuse are prohibited.

We strictly prohibit the intentional harm or mistreatment of employees through physical, psychological, or emotional means, specifically including...

Including but not limited to the following behaviors: sexual harassment, corporal punishment, psychological or physical coercion, verbal abuse, and illegal acts.

Searches and detentions are prohibited. Furthermore, it is strictly forbidden to force employees to engage in the aforementioned activities through threats, coercion, or other means.

3. Adhere to the principle of equal employment

Equal employment is an important guarantee for promoting high-quality and full employment, while eliminating employment discrimination is the key to achieving equal employment.

The core aspects of the business. The company strictly adheres to the "Labor Law of the People's Republic of China" and the "Employment Law of the People's Republic of China".

Laws and regulations such as the "Law on the Promotion of Human Rights" integrate the concept of human rights protection into the corporate governance system, focusing on building it from three dimensions.

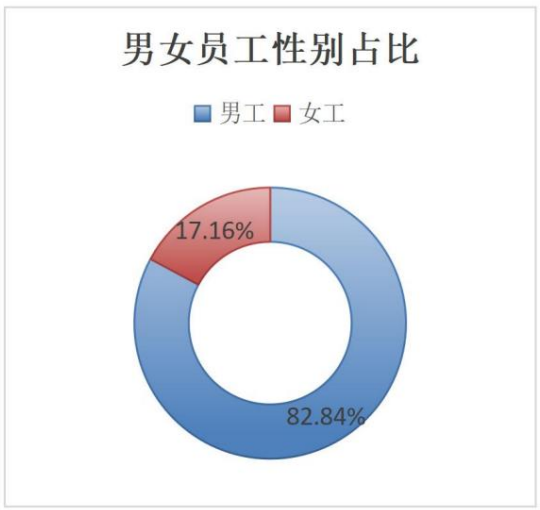
Fair employment mechanism: First, the recruitment process must strictly prohibit factors such as ethnicity, race, gender, and religious belief.

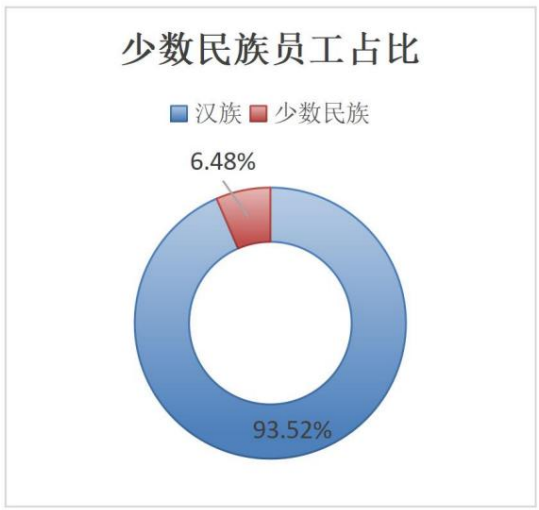
Implement differentiated treatment, especially strictly enforce national regulations on special labor protections for female employees, and eliminate discrimination based on gender.

First, we should establish employment barriers under the pretext of [illegible]; second, we should actively carry out employment support programs for special groups, through the development of specialized positions.

Create employment opportunities for people with disabilities, ethnic minorities, and veterans; and finally, strictly regulate salary distribution.

We must uphold the principle of equal pay for equal work and earnestly safeguard the legitimate rights and interests of workers.





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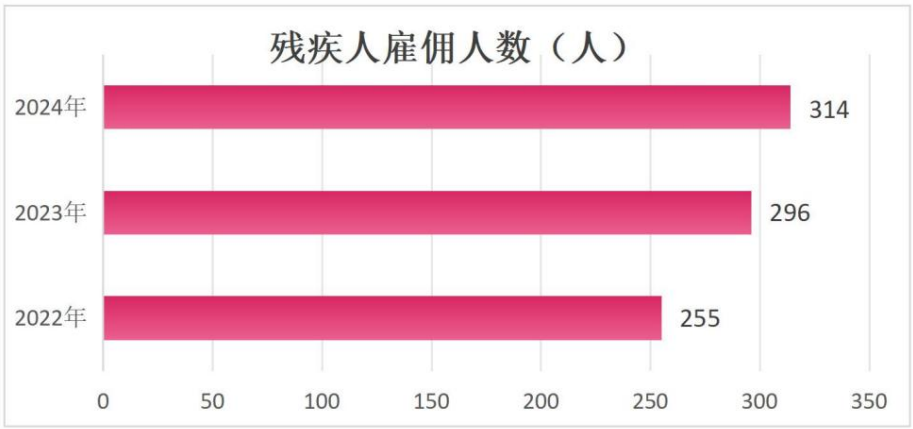
Caring for people with disabilities and other special groups to enhance their sense of belonging in their professions

In 2024, the Group consciously assumed responsibility for the placement of people with disabilities, continued to deepen its work on employment security for people with disabilities, and implemented...

Currently, 314 people with disabilities have been employed. Their income level is guaranteed through the implementation of an equal pay for equal work system, and psychological support is being established simultaneously.

A comprehensive service system including psychological counseling and legal aid is established, along with regular skills training and recreational activities, to build a "platform"

A supportive employment environment for people with disabilities that emphasizes respect and diverse care.



In March 2024, Zhang Yinliang, Vice Chairman of the China Disabled Persons' Federation, and his delegation visited the Longbai Group's Disabled Employees Care Center and related facilities.

The delegation conducted on-site research at the employment assistance base, highly praised the company's achievements in implementing employment placement for people with disabilities, and encouraged further efforts.

Enterprises are encouraged to continuously improve their support mechanisms, fully unleash the potential of employees with disabilities, and enhance their professional value through creating social value.

A sense of belonging to the profession.

(iv) Employee growth and development

1. Achieve broad coverage of employee training.

In 2024, the group and its various units provided training to a total of 500,000 people, of which 18,000 received training on values and principles.

10,000 people attended; 65,200 people attended management skills enhancement courses; 105,900 people attended technical skills courses; 33,700 people attended lean management courses.

10,000 person-times; 15,900 person-times for new employee onboarding; 218,700 person-times for safety, environmental protection, and emergency response; licenses and permits.

2,917 people participated in the first category; 19,000 people participated in the comprehensive quality improvement category; and 11,000 people participated in other categories.

2. Diversify training methods

By "cultivating and empowering, and strengthening the foundation," we have created a fertile ground for talent development, and our training programs are diverse and engaging.

Management empowers projects to be precise and efficient, improves management at the senior and middle management levels and at the base level, and facilitates the training of reserve cadres through temporary assignments.

This system was implemented effectively, creating a multi-tiered growth framework that helped over 160 management talents stand out and become key figures within the group.

We will strengthen our talent pool to provide strong support for the implementation of the group's strategy and its efficient operation.

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Through mentorship programs, skills enhancement activities, and the "Longbai Champion" competition, the Longbai Champions are selected and trained.

By retaining employees and stimulating their potential, over 1,300 employees have obtained technical and functional professional titles while still employed. This initiative is implemented at the Jiaozuo base and Yunnan Guotai.

Employees have consistently achieved excellent results in provincial and municipal skills competitions, demonstrating their capabilities. Technical training is professional and efficient, involving industry experts...

Technical experts provide hands-on experience, and the integrated learning, practice, and training model effectively improves employees' practical skills.

With flexible and diverse models, innovative teaching methods such as "flipped classroom," "finger pointing and verbal expression," and "PowerPoint presentation competitions" are emerging one after another.

With a comprehensive integration of online and offline methods, the atmosphere of a learning organization is becoming increasingly strong.

Excellent practice cases:

Specialized training empowers development

In 2024, the Group partnered with Xi'an Jiaotong-Liverpool University to organize an empowerment program for middle and senior management personnel.

Courses on "Digitalization," "Intelligentization," and "Strategic Planning" were offered, and participants visited several outstanding companies, broadening their horizons.

Wilderness, igniting passion, injecting new momentum and vitality into future work. Meanwhile, each branch is also actively carrying out management...

Cadre training activities. For example, Sichuan Mining and Metallurgy Co., Ltd. conducts internal training for management cadres on a rotating basis, and organizes study tours for external personnel.

Specialized programs such as team building for management cadres enhance the leadership and overall quality of management personnel.



3. Industry-Education Integration, Collaborative Development Between Schools and Enterprises. In 2024, the company continued to innovate its "dual-system" technical and skilled talent development program.

Cultivating talent training models such as the "new apprenticeship system," each base has taken the initiative to deepen the integration of industry and education, and on campus...

Another breakthrough has been achieved in enterprise cooperation. Details are as follows:

unit	Partner Universities	Content Overview

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Group Headquarters	Henan Polytechnic University, North China University of Water Resources and Electric Power, Henan University of Science and Technology, Zhengzhou University, Beijing University of Chemical Technology, Henan University, Zhengzhou University of Light Industry, Jiaozuo New Materials Vocational College	1. On March 26th and September 9th-13th, a total of 370 students from Henan Polytechnic University visited and interned at the company; 2. On April 12th, a total of 90 students from North China University of Water Resources and Electric Power visited and interned at the company; 3. On May 10th, a total of 30 students from Henan University of Science and Technology visited and interned at the company; 4. In March, a strategic cooperation agreement was established with Zhengzhou University; in September, a cooperation project was launched with Zhengzhou University on "Development of a New Technology for Ammonia-Free Niobium and Tantalum Extraction from Chlorinated Titanium Dioxide Waste"; from July 1st-23rd and October 26th, a total of 219 students from Zhengzhou University visited and interned at the company; 5. In October, a strategic agreement was established with Jiaozuo New Materials Vocational College; 6. On November 8th, the company signed an agreement with Beijing University of Chemical Technology for an off-campus practical teaching base and held an unveiling ceremony; 7. In July, a joint postdoctoral training program was launched with Henan University; 8. In August, a joint postdoctoral training program was launched with Zhengzhou University of Light Industry. 1. As a "Teaching Practice Base of Sichuan University," the company continuously deepens its cooperation with Sichuan University, strengthens the
Longbai Sichuan Titanium Industry Co., Ltd.	1. Sichuan University 2. Sichuan Vocational College of Industry and Commerce 3. Chongqing Chemical Industry Vocational College 4. Central South University 5. School of Chemical Engineering, East China University of Science and Technology	integration of industry, academia, and research, and provides over 50 students majoring in Chemical Engineering and Technology from Sichuan University with a 10-day production internship at the company. Simultaneously, the company jointly conducts a project to transform the technological achievements of efficient utilization of titanium resources in concentrates. 2. Students from Sichuan Vocational College of Industry and Commerce undertake internships at the company. 3. Students from Chongqing Chemical Industry Vocational College undertake internships at the company. 4. The company collaborates with Central South University on a project to transform the technological achievements of titanium dioxide solid waste hydrolysis and titanium scale resource utilization. 5. The company jointly conducts a special activity to visit enterprises and expand job opportunities with the School of Chemical Engineering of East China University of Science and Technology.
Longbai Xiangyang Titanium Industry Co., Ltd.	East China University of Science and Technology	From August 19 to 28, 2024, 27 teachers and students from East China University of Science and Technology conducted graduation internships at Longbai Xiangyang Titanium Industry Company.
Longbai Sichuan Mining and Metallurgy Company	Kunming University of Science and Technology, Southwest University of Science and Technology, Southwest Jiaotong University	1. In March 2024, in close cooperation with Kunming University of Science and Technology, three recent graduates started their internships ahead of schedule.

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	Panzhihua University	2. In June 2024, the company continued its cooperation with Southwest University of Science and Technology, providing 15-day on-site internships for third-year students majoring in mineral processing. 3. In May 2024, the company reached an agreement with Southwest Jiaotong University and Panzhihua University to jointly train postdoctoral fellow Liu Peng. 4. The company closely cooperated with Panzhihua University, providing on-site training for third-year students majoring in mining operations. 1. In cooperation with
Panzhihua Baifengyuan Mining Co., Ltd.	Panzhihua Technician College, Panzhihua University	Panzhihua Technician College, the company conducted vocational skills training for industrial workers, providing training for 25 employees in basic, intermediate, and advanced levels of electrician and welder certifications, as well as training for new special operations personnel. 2. The company participated in talent exchange and recruitment fairs at Panzhihua University, recruiting 4 professional personnel, including 2 recent graduates and 2 past graduates. 3. The company invited 50 students from the School of Environmental Science at Panzhihua University to visit and learn at the company. 1. In 2024, the company, in conjunction
Longbailufeng Titanium Industry Co., Ltd.	Yunnan Copper Industry Senior Technical School, Kunming Metallurgical College, School of Metallurgy and Mining, Yunnan Modern Vocational Technical College	with Yunnan Copper Industry Senior Technical School, conducted "New Apprenticeship" training, with 70 employees participating. 2. Signed an off-campus practical training cooperation agreement with Kunming Metallurgical College (School of Metallurgy and Mining). 3. Signed a practical training base agreement with Yunnan Modern Vocational Technical College. 1. The company reached a cooperation agreement with the Yunnan Provincial Expert
Yunnan Guotai Company	Institute of Metal Research, Chinese Academy of Sciences; Central South University; University of Science and Technology Beijing; Beijing University of Aeronautics and Astronautics; Northeastern University; Kunming University of Science and Technology; Yunnan Minzu University; Chuxiong Normal University; Yunnan Copper Industry Senior Technical School; Southwest Forestry University; Yunnan Industrial Technician College	Talent Industry Service Group, partnering with five authoritative industry experts from top academic institutions such as Kunming University of Science and Technology, Beijing University of Science and Technology, and the Institute of Metal Research, Chinese Academy of Sciences, to collaboratively tackle technologies related to sponge titanium. Currently, three experts with doctoral degrees have joined the company. Simultaneously, framework cooperation agreements were signed with relevant colleges of the Institute of Metal Research, Chinese Academy of Sciences, Central South University, Beijing University of Science and Technology, Beijing University of Aeronautics and Astronautics, Northeastern University, Kunming University of Science and Technology, Yunnan University for Nationalities, Southwest Forestry University, and Chuxiong Normal University. 2. The company was designated as a flexible high-level talent introduction base in Chuxiong Prefecture. 3. The company, in conjunction with Yunnan Copper Industry Senior Technical School, conducted "New Apprenticeship" training at the company.

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		1. 130 employees participated in training. 4. Signed an off-campus training cooperation agreement with Southwest Forestry University (College of Chemical Engineering). 5. From June 20th to 21st, 2024, hosted over 200 teachers and students from Southwest Forestry University (College of Chemical Engineering) for a visit and internship at the company. 6. Signed an off-campus training cooperation agreement with Yunnan Industrial Technician College in October 2024. 1. In 2024, the company, in conjunction with Yunnan Copper Senior Technical School, conducted a "New
Longbailufeng Titanium Industry Co., Ltd.	Yunnan Copper Industry Senior Technical School, Kunming Metallurgical College, School of Metallurgy and Mining, Yunnan Modern Vocational Technical College	Apprenticeship System" training program at the company, with 70 employees participating. 2. Signed an off-campus training cooperation agreement with Kunming Metallurgical College (College of Metallurgy and Mining). 3. Signed a training base agreement with Yunnan Modern Vocational Technical College. 1. Based on the company's employment needs, the two colleges prioritize sending outstanding students, and the company also provides internship bases for the colleges. 2. Over
Gansu Baililian Company	Gansu Agricultural Vocational and Technical College, Gansu Mechanical and Electrical Vocational and Technical College, Gansu Nonferrous Metals Vocational and Technical College, Lanzhou University, Gansu Agricultural University	100 teachers and students from the schools visited the company for learning, and a site presentation was held. 3. Collaborate with Lanzhou University to research the compliance of a 200-mu (approximately 33 hectares) transfer water pond and to research production wastewater treatment technology. 4. Collaborate with Gansu Agricultural University to research titanium gypsum as an artificial soil matrix. 1. In February 2024, signed a technology agreement with Central South University to jointly develop the project "Research and Development of High-Specific-Characteristic Phosphate Cathode Materials". 2. In November 2024, signed a school-enterprise R&D cooperation agreement with
Henan Baili New Energy Materials Co., Ltd.	Jiaozuo New Materials Vocational College of Central South University	Jiaozuo New Materials Vocational College to jointly build a school-enterprise R&D center.

(v) Promote decent employment for employees

1. Protect employees' basic rights and build harmonious labor relations.

The company adheres to international conventions concerning labor and human rights, respects and protects the legitimate rights and interests of its employees, and advocates...

An equal and non-discriminatory employment policy, a sound compensation and benefits system, and a robust democratic mechanism will create a fair and just working environment for employees.

A harmonious working environment. Meanwhile, Longbai Group Co., Ltd. was awarded the "2024 China's Best Employer Award".

The company has consistently regarded dispute mediation as a way to resolve conflicts, earning recognition as a key indicator of its commitment to compliance and integrity in labor protection in 2023.

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As an important means of protecting employee interests, a specialized dispute mediation organization has been established in accordance with laws and regulations, with mediators appointed by...

The mediation process is composed of staff from the human resources department, labor union, and legal affairs department to ensure fairness and neutrality.

The company adheres to international labor and human rights conventions, insists on protecting employee rights and safeguarding their legitimate demands, and promotes fair competition.

Non-discriminatory employment policies, continuous optimization of the salary and benefits system and democratic management mechanism, and the construction of a fair and orderly employment system.

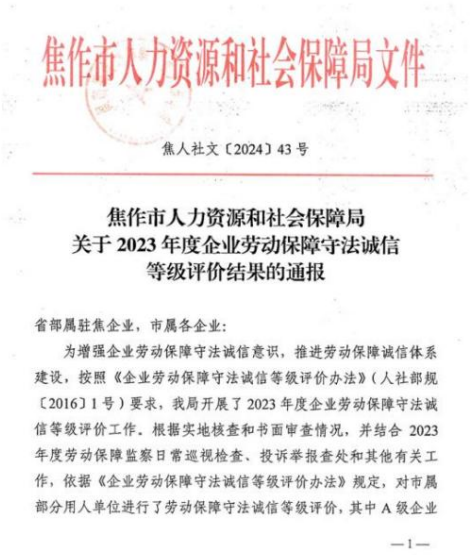
Business environment. Based on its outstanding practices in human resources, the Group was named one of "China's Most...

"Best Employer" and has maintained the title of "Labor Protection Law-Abiding and Integrity Grade A Enterprise" (2023). In dispute resolution...

Regarding the establishment of a resolution mechanism, a mediation committee composed of professionals from the human resources department, labor union, and legal department has been set up.

Yes, a tripartite collaborative working mechanism will be established to ensure procedural justice and fair outcomes in dispute resolution.





焦作市人力资源和社会保障局文件

焦人社文〔2024〕43号

焦作市人力资源和社会保障局
关于2023年度企业劳动保障守法诚信
等级评价结果的通报

省部属驻焦企业，市属各企业：

为增强企业劳动保障守法诚信意识，推进劳动保障诚信体系建设，按照《企业劳动保障守法诚信等级评价办法》（人社部规〔2016〕1号）要求，我局开展了2023年度企业劳动保障守法诚信等级评价工作。根据实地核查和书面审查情况，并结合2023年度劳动保障监察日常巡视检查、投诉举报查处和其他有关工作，依据《企业劳动保障守法诚信等级评价办法》规定，对市属部分用人单位进行了劳动保障守法诚信等级评价，其中A级企业

—1—

2. Implement equity incentives and launch an employee stock ownership plan.

"Practicing the concept of mutual benefit and righteousness and sharing the fruits of high-quality development" is the core of listed companies' fulfillment of social responsibility.

Core business is a crucial task and a vital support for the company's strategic development. Since its listing, the company has continuously deepened equity incentive programs.

Incentive mechanism reforms have effectively activated the driving force for talent development, and while building a sound talent attraction system, they have also established a long-term mechanism.

An effective talent retention mechanism helps employees transform from ordinary workers into business partners.

The in-depth implementation of equity incentives and employee stock ownership plans has built a shared interest mechanism for value creation between enterprises and employees.

This initiative not only strengthens organizational cohesion and market competitiveness, but also provides incentives that unify rights, responsibilities, and benefits.

This mechanism fully unleashes employees' innovative potential and development momentum, simultaneously driving the enhancement of corporate value.

Realizing personal growth not only ensures employees receive decent compensation but also allows them to share in the value of the capital market.

The mechanism has created a long-term incentive and pioneered a new governance model for the common development of listed companies and their employees.

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As a faithful practitioner of the development philosophy of "mutual benefit and righteousness," the company has always focused on shareholder value and corporate growth.

Synergistic development with employee well-being. By fully leveraging the advantages of the listed platform, we will continuously forge the strategic foundation of the Longbai team.

Determination and innovative vitality inject lasting vitality into realizing the mission and vision of "leading a beautiful titanium lifestyle and becoming a respected enterprise".

power.

3. Facilitate promotion channels and stimulate talent vitality.

With social development and economic progress, the importance of talent is becoming increasingly prominent. How to attract, cultivate, and...

Retaining top talent has become crucial for the company's development; therefore, the company places greater emphasis on the diverse needs of its employees.

And its development direction. The company continuously innovates its promotion channels to attract employees with strong management capabilities and high levels of professional skills.

Employees with outstanding work performance will be offered a three-track promotion system: management positions, professional and technical positions, and professional skill titles.

The mechanism aims to stimulate employee enthusiasm and creativity, and to ensure that expert personnel have access to professional skills and expertise.

Promotion opportunities along the career ladder meet career development needs, allow for full utilization of professional expertise, and maximize the value of the position.

At the same time, the smooth operation of the "three-track" promotion mechanism can improve employees' personal qualities and abilities, and create a positive atmosphere within the company.

To create a fair, just, and open competition mechanism.

4. Implement a dignified employment initiative to enhance employee cohesion.

The Longbai Childcare Center and summer childcare program were established to precisely address the childcare needs of employees' children, providing free childcare services for their children.

Women provide services such as care, nursing, accommodation, handicrafts, park visits, and learning, achieving a seamless work-life balance.

The program facilitated the transition, with the childcare center investing over 380,000 yuan to serve approximately 1,000 children of staff members, and summer childcare staff...

1,500 children of workers participated. A diverse array of cultural activities were simultaneously developed, leveraging festivals, sports competitions, and outdoor events.

Expanding platforms such as youth social events to systematically promote employee physical and mental health management. An investment of over 160,000 yuan was made to establish a smart laundry facility.

The clothing service pilot program provides free cleaning, ironing, and mending of work uniforms for on-duty employees; and invested over 200,000 yuan to renovate cultural and sports facilities.

The center is equipped with fitness facilities; Longbai Sichuan Mining and Metallurgy Company invested 5.088 million yuan to renovate the No. 3 staff dormitory.

The gym underwent renovations and was equipped with air conditioning; Yunnan Xinli Company invested over 100,000 yuan to completely renovate the gym and equip it with sports equipment.

The company also invested 600,000 yuan to build an employee health center, providing exercise equipment. This initiative effectively alleviated workplace stress and significantly...

Enhance organizational cohesion and continuously improve employee happiness and sense of belonging to the company.

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(vi) Giving back to society and demonstrating corporate social responsibility

As a leading enterprise in the global titanium dioxide industry, Longbai Group, while expanding and strengthening its industrial base, also contributes to society.

A culture of responsibility is integrated into the company's long-term development strategy and the entire production and operation process, earnestly practicing humanistic care and accumulating...

Actively engage in public welfare undertakings and take concrete actions to participate in rural revitalization, village-enterprise cooperation, educational donations, and social welfare.

The company actively participates in charitable activities and provides strong support and funding, giving back to society with sincerity, benefiting humanity, and demonstrating its status as a listed company.

A strong sense of responsibility. According to statistics, in 2024, the group invested a total of funds in supporting rural revitalization and carrying out social welfare activities.

It reached 8,168,860 yuan.

The specific rural revitalization, social welfare, and social responsibility projects carried out are as follows:

Longbai Group's 2024 Contributions to Rural Revitalization and Social Welfare Activities			
Project Name	Content Overview	Investment (ten thousand yuan)	time

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Rural revitalization	Longbai Sichuan Mining and Metallurgy Company supports Boke in Muli County Construction of safe drinking water project in Xiangluona Village	10	July 2024
	Longbai Sichuan Mining and Metallurgy Company supports Wenquan Yi Ethnic Township Industrial Development of Yemadi Village	20	December 2024
	Longbai Xiangyang Titanium Industry Company provides assistance to Chengguan Town, Nanzhang County. Zhenhuangya Village and Chejiadian Village contribute to rural revitalization	23.8	2024
	Yunnan Guotai Company supports the development of Keli Village, Qinfeng Town exhibition	5	December 2024
Ecological improvement	The group completed the disposal of nearly 300 mu of waste soil at Liuzhuang stockpile. Land optimization and improvement have excellent recultivation potential. condition	250	2024
Social sponsorship/ donation	Longbai Sichuan Mining and Metallurgy Company sponsored the filming of the movie. "Delicious Life" supports the cultural industry in Yanbian. develop	80	April 2024
	Longbai Sichuan Mining and Metallurgy Company sponsors the book "China" Iron Ore Editor's Note: Enhancing Longbai's Leading Position in the Industry Domain popularity	3	November 2024
	Longbai Sichuan Titanium Industry Co., Ltd. supports Deyang and other national dragons Boat race	3	June 2024
	Longbai Xiangyang Titanium Industry Co., Ltd. donated to Lantian County, Nanzhang County Rescue team and Nanzhang Youth Volunteer Association	3	2024
	Yunnan Guotai Company sponsors the Chuxiong Prefecture Torch Festival	50	July 2024
	Sponsoring enterprises under the China Nonferrous Metals Industry Association Beijing Zhongse Xinqiao Technology Co., Ltd. The production of the "National Titanium Metal" science popularization video aims to improve... Public awareness of titanium will enhance the company's [relationship/performance/etc.]. Industry reputation	10	December 2024
	Longbaifengyuan Mining Company donated to Luoguo Village charity Donating chairs and benches to the community	1	January 2024
	Longbaifengyuan Mining Company supports cultural and tourism activities in the eastern district. Actively founded	2.99	April 2024
	Longbaifengyuan Mining Company donated to Wudaohe Village Office equipment	1	July 2024
	Longbaifengyuan Mining Company donated to Shuangjiang Community Community construction fee	1	November 2024
	Longbaifengyuan Mining Company donated to Panzhihua Village Office equipment	1	December 2024
	The group headquarters donated to the Jiaozuo Disabled Persons' Federation. Gift	5	May 2024
	The group headquarters donated funds to help Houyue Village.	1	November 2024

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	Group Headquarters 99 Charity Day	0.764	September 2024
	Gansu Baililian Chemical Company Conducts Promotional Activities in the East Wancun Community Activities	0.328	May 2024
Village-enterprise co-construction	A ribbon-cutting ceremony was held to mark the opening of Jing Si Road and to mark the "village-enterprise" cooperation initiative. "One Family, One Hand, Happy Journey" Village-Enterprise Joint Construction Activity	112.78	June 2024
	Longbai Sichuan Mining and Metallurgy Company and Anning Village, Jiuchang Villages and surrounding villages such as Pinggu Village and Shuiping Village opened Exhibition of "Party Organization Joint Building" Activities	2.1	July 2024
	Longbai Sichuan Titanium Industry Company to the People's Government of Xinshi Town The government paid 800,000 yuan in village-enterprise joint construction funds, and used... Mianzhu City Red Cross Society's targeted donation	80	January 2024
	Longbai Sichuan Titanium Industry Company launched its 2024 police campaign. Enterprise-co-construction	3	February 2024
	Longbai Sichuan Titanium Industry Co., Ltd., through the Red Cross Society and Hanwang Town launches targeted town-enterprise joint construction activities	10	May 2024
	Longbai Sichuan Titanium Industry Company Mianzhu City Red Cross Society Targeted Hanwang Infrastructure Construction	8	October 2024
	Longbai Sichuan Titanium Industry Co., Ltd., Zhenjiang Village, 2024 Village-enterprise co-construction	2	December 2024
	Longbai Sichuan Titanium Industry Company Xinshi Town People's Government Government and village-enterprise joint construction funds are used for the Hong... Red Cross targeted donations	80	December 2024
	Longbaifengyuan Mining Company and Shaba Village Party Branch Jointly carry out Party building activities	1	July 2024
	Longbaifengyuan Mining Company and Panzhihua Village Development Village-enterprise co-construction	2.01	September 2024
	Gansu Baililian Chemical Company 2024 Village-Enterprise Cooperation Basketball friendly match	0.2	September 2024
Donating to support education	On Children's Day, we extended our greetings to Shuiping Village in Xinjiu Town and Pinggu. disadvantaged children in the village and surrounding villages	0.95	June 2024
	Longbailufeng Titanium Industry Company, Qinfeng Town Government	10	August 2024
	Group Headquarters Autumn Scholarship	1	July 2024
Assistance for those in difficulty condolences	Longbai Sichuan Mining and Metallurgy Company's Flood Relief Efforts: Donations Guosheng Chamber of Commerce member	31.964	August 2024
	Longbai Sichuan Mining and Metallurgy Company helped impoverished villages in the surrounding area. civil		September 2024

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	Longbai Fengyuan Mining Company conducted Spring Festival visits to elderly people living alone and people in need in nine villages and communities		January 2024
	surrounding the company. The company also visited Hengde Community and Nongmi Village to offer condolences to elderly people living alone and		November 2024
Social condolences	people in need. The group and its various units actively carried out Spring Festival and Dragon Boat Festival activities to support impoverished residents in surrounding communities. Longbai Sichuan Titanium Industry Company also visited the Jiaozuo City Fire and		January-December 2024
Poverty alleviation and condolence visits	Rescue Detachment and the Zhongzhan District Fire and Rescue Brigade.		



Longbai Sichuan Mining and Metallurgy Co., Ltd. donated **200,000** yuan to support the industrial development of Yemadi Village, Wenquan Yi Township.



Longbai Sichuan Mining and Metallurgy Co., Ltd. supported the construction of a safe drinking water project in Luona Village, Boke Township, Muli County **with 100,000** yuan .



Longbaifengyuan Mining Company visited and offered condolences to elderly people living alone and people in need in Hengde Community.



Longbai Sichuan Titanium Industry Company Conducts August 1stÿÿ Activities

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XI. Upholding Business Ethics and Building a Better Future with Integrity

(a) The concept of fair business practices

The company upholds integrity through comprehensive prohibitions on business conduct, compliance management mechanisms, and multi-faceted oversight.

Responsibility. Throughout our operations, we consistently uphold the principles of "professionalism, 6P synergy, commitment adherence, and effective listening."

Adhering to the sales service policy of "listen, respond quickly, and take full responsibility," we operate with integrity, compete fairly, and focus on economic efficiency.

The coordinated development of public welfare, environmental protection, and social benefits can be achieved through mechanisms that ensure transparent rules, equal opportunities, and shared benefits.

To build a healthy market ecosystem and achieve the Group's healthy, green, and high-quality development. In 2024, the Group was honored...

It was recognized as a national case study in building trustworthy enterprises.

(II) Measures and practices for practicing business ethics

1. Establish a compliance management system and solidify the ethical foundation.

The company uses the "Longbai Values and Guidelines" and the "Non-Competition Management Measures" as its core framework to systematically review...

The list of prohibited business practices covers the entire business process, including procurement, sales, and R&D, and strengthens the management of Party members and cadres.

Integrity education for key personnel. Simultaneously, a dynamic evaluation mechanism for non-compete positions will be established, targeting core...

For key personnel in technical and marketing strategy positions, a three-pronged approach will be implemented: "onboarding commitment – on-the-job monitoring – post-departure tracing".

Level-one risk control. The rights and obligations of both employees and the company are clearly defined through a "Confidentiality and Non-Competition Agreement." Actively...

Establish an orderly and harmonious employment mechanism to safeguard the legitimate rights and interests of employees and the company.

Practical Case:

To further study the spirit of the Third Plenary Session of the 20th CPC Central Committee, the Group's Party Committee organized 16 Party branches to watch Xie's performance.

Professor Chuntao delivered a Party lecture, which was attended by 526 people; the director and deputy director of the Marxism-Leninism Teaching and Research Department of the Municipal Party School were also invited to participate.

Professor Liu Xinwei conducted in-depth study of the "Regulations on Disciplinary Sanctions of the Communist Party of China," with 175 participants, further enhancing their understanding and skills.

It has enhanced the discipline awareness and ideological quality of Party members and cadres.

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2. Conduct joint inspections and investigations with multiple parties, and strictly enforce discipline to deal with violations.

At the beginning of the year, the "Responsibility Agreement for Target Management of Party Conduct and Integrity Building" was signed with the Party and government leaders of 36 units, and the implementation of this agreement was carried out.

The current system of integrity responsibility "guides senior management, leads middle management, and motivates grassroots staff," strengthening the ideological and moral defenses while simultaneously forming a group-wide disciplinary system.

The committee and the discipline inspection commissions of various bases have established an interconnected supervision mechanism, leveraging the "online + offline" two-way reporting platform, in conjunction with the company's efforts.

In accordance with the fifteen prohibitions on business practices and the spirit of the "Notice on Strengthening the Discipline and Work Style of Cadres and Employees," we will strictly investigate and punish those who engage in unethical practices.

For violations of discipline, the punishment and accountability will be strengthened, and those who violate discipline will be publicly exposed to create a warning effect.



3. From defense to value co-creation: Strictly protecting trade secrets

All employees in the sales, R&D, production, and technical service departments strictly maintain the confidentiality of the company's trade secrets and customer information.

Information will be kept in accordance with confidentiality agreements and supply agreements; internal personnel will not disclose it, external customers will not be informed, and it will not be shared with any party.

Third-party leaks mean we must prioritize customer information protection, uphold our customer-first philosophy, and safeguard our customers' legal rights.

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beneficial.

4. The integration of contractual spirit and sustainable development practices

We uphold contracts, act with integrity, strictly abide by the law, and consistently adhere to the principles of sustainable development. All employees

We must thoroughly implement the principles of freedom of contract, equality, good faith, and redress, and especially cultivate employees' moral values of honesty and trustworthiness.

This concept instills the spirit of contractual integrity in the hearts of all employees; responsibilities and obligations are strictly fulfilled in accordance with the contract, without exception.

Regardless of market changes and price fluctuations, we will continue to fully respect commercial contracts and fulfill our obligations, laying a solid foundation for long-term cooperation.

Solid foundation; strictly refuse customers' requests to modify invoice amounts, falsely report customs duties, and other illegal requests, maintaining market fairness. (Related to environmental protection)

The sulfuric acid process employs a circular production model, while the chlorination process utilizes highly efficient and clean production processes, complying with environmental regulations.

Achieving green production, reducing energy consumption and pollution emissions, and ensuring customers receive high-quality, environmentally friendly products, while promoting...

Promote the green transformation of the industry; adhere to the principle of fair competition, refrain from maliciously defaming competitors, and avoid unfair competition.

Measures to maintain the healthy development of the industry. Collaborate with suppliers, sign long-term cooperation agreements, and jointly optimize the supply chain.

Management will help upstream and downstream enterprises enhance their sustainable development capabilities and jointly build a green industrial chain. We will continue to deepen this work in the future.

Integrating the spirit of contracts with sustainable development, with transparent performance and shared responsibility as the core, and working with stakeholders...

Building a fair and green industrial future.

5. Strengthen training to promote product awareness and adoption.

To popularize and promote the company's products, enabling customers to better understand and apply them, and to produce more durable and environmentally friendly products.

Products indirectly help customers reduce carbon emissions and energy consumption in production, while also improving the professional knowledge of sales personnel.

To improve the business skills of distributors and sales staff, and to enable them to more accurately understand the characteristics and advantages of our products, thereby enhancing their professional competence.

The ministry, quality inspection and other relevant departments have conducted multiple training sessions, which have achieved good results.

(III) Main Responsibilities for Safeguarding Cooperative Interests

Institutional Foundation: Building a full-chain anti-fraud mechanism. Improving the "Business Ethics Regulations of Longbai Group Co., Ltd."

The "Code of Conduct" and employee statement, along with the "Fifteen Prohibitions on Ethical Business Conduct" in "Longbai Values and Guidelines," clearly define these principles.

The order prohibits employees from contacting customers, suppliers, contractors, government officials, or others with business dealings with Longbai Group.

The relevant personnel shall not accept or solicit any benefits. The company regularly holds meetings with senior and middle-level managers and core management personnel.

Conduct training on integrity culture, sign integrity target responsibility agreements, and investigate kinship relationships among cadres within the same unit or department.

Relatives should be reassigned to different positions to prevent them from using their positions for personal gain.

At the same time, the company continues to improve its business ethics management and personal complaint mechanisms to ensure the smooth operation of relevant systems.

Implementation. In 2024, the company maintained a good credit rating.

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Fulfilling Partnership Responsibilities – Achieving Win-Win Cooperation and Sustainable Development

The Group always adheres to a customer-centric approach and fully protects the rights and interests of its customers.

1. Upholding the principles of fairness and impartiality, we strive to establish mutually beneficial and long-term stable relationships with our clients. In the sales process...

During this period, the company strictly adheres to market rules and industry standards in its transactions, eliminating unfair competition in order to maintain [its reputation/safety].

Protecting the legitimate rights and interests of our partners. We have signed long-term supply contracts with international strategic end-users to guarantee their rights.

Stabilize supply and stabilize market prices.

2. Establish and improve communication and coordination mechanisms to actively promote the coordinated development of upstream and downstream industrial chains. ÿ Adhere to contracts.

In spirit, we should establish an open and transparent communication mechanism to eliminate friction caused by information asymmetry and jointly resolve cooperation issues.

Problems encountered during the process were addressed to achieve mutual benefit and win-win results. ÿ Collaborative technical services and on-site services from research institute personnel were provided to assist...

Helping partners improve product quality, enhance overall competitiveness, and promote the green, environmentally friendly, and sustainable development of the industrial chain.

Continued development. ÿ Provide a range of service guarantees, including pre-sales consultation, after-sales product technical services, and product compliance.

3. Strengthen logistics and warehousing management to meet customer needs. ÿ Continuously optimize SAP based on agent requests.

System. ÿ Strengthen internal collaboration, improve production and shipping planning processes, and ensure on-time product delivery. ÿ Adjust

We will optimize our agency structure, improve the matching of route bids, build the best supplier team, and optimize product shipping services.

Improve shipping quality and reduce the supplier's shipping risk.

Fulfill quality responsibilities and establish a good brand image

The company operates strictly in accordance with the ISO9001:2015 quality management system, adhering to the principle of "continuous improvement, quality first".

Adhering to the general principle of "striving for excellence; constantly surpassing expectations; and providing the best possible service," in 2024, we focused on "meticulous production and stable quality."

With the work goal of "continuously surpassing from the inside out," and focusing on "stabilizing the quality and expanding the variety of titanium dioxide products; and improving the quality and variety of sponge titanium products," we aim to achieve continuous improvement.

Our work direction is to "improve product quality; solidify standards for lithium energy products," thereby enhancing customer satisfaction and establishing a positive product reputation.

Quality Image. In the paper industry, Longbai Group is committed to stabilizing raw material quality through technological innovation and resource integration.

Supply and cost reduction to support sustainable development in the paper industry.

Deep Insights: From "Knowing" to "Anticipating" Customer Needs

1. Data-driven demand mining to build customer profiles and integrate transaction records, behavioral data, and social media.

Feedback is used to analyze and predict potential needs through AI, enhance scenario-based research, and conduct real-world product usage surveys.

Observe the pain points in the scene.

2. Strengthen quality inspection and supervision functions, improve inspection systems, and effectively carry out quality supervision and management.

Strengthen management of the entire process from raw material inspection to product sales, and increase efforts to address product quality issues at each stage.

Strengthen accountability. At the same time, establish an early warning mechanism and strengthen process quality control.

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3. Enhance product usage feedback and communication: Strengthen customer service, and ensure timely communication by sales and technical personnel.

By understanding and responding to customer opinions and suggestions, we can reduce customer complaints caused by poor communication and improve customer satisfaction.

This allows complaints and feedback to be handled quickly and effectively.

4. Product design rationalization: Strengthen market visits by product R&D personnel to gain a deeper understanding of customer needs.

And potential needs, to ensure that products meet customer needs.

5. Strengthen customer communication training to cultivate a customer-centric corporate culture and improve communication skills.

Communication skills have become one of the core competencies of employees, while also helping customers gain a deeper understanding of the company's products.

This lays the groundwork for future cooperation.



Hubei Nippon Paint Training Site

(iv) Sales and Operation Status

In 2024, facing a complex and volatile domestic and international economic situation and increasingly severe anti-dumping challenges, [the following text appears to be unrelated and possibly a separate sentence fragment: "Group"]

The group sales department demonstrated unprecedented resilience and determination. In a market environment fraught with uncertainty, they achieved...

Facing challenges with a positive mindset and an unwavering belief in victory, through precise market strategies, flexible business adjustments, and...

Through relentless efforts, the predicament was successfully reversed, and the main business maintained growth.

1. Implement differentiated policies and promote innovation.

Explore and innovate, adjust customer structure, stabilize major clients, plan the market, and streamline channels. ÿ Cooperate with multiple countries

Partnering with well-known local distributors, leveraging their local warehouses and sales teams, increases product coverage.

Coverage rate; ÿ By establishing direct cooperation with end customers through the agency model, the channel length is shortened and the market is improved.

Market share; ÿ Moving sales forward, employing local personnel abroad, and utilizing the well-developed local warehousing and logistics system to meet [the needs of customers].

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Meet local supply needs of customers and actively participate in international market competition; ÿ Factory direct delivery, distribution, agency, local

ÿ Multiple supply channels including warehousing; ÿ Utilizing China Export & Credit Insurance to safeguard the expansion into international markets;

ÿ For countries facing payment difficulties, a third party may be introduced to assume the corresponding payment responsibility, as instructed by the customer.

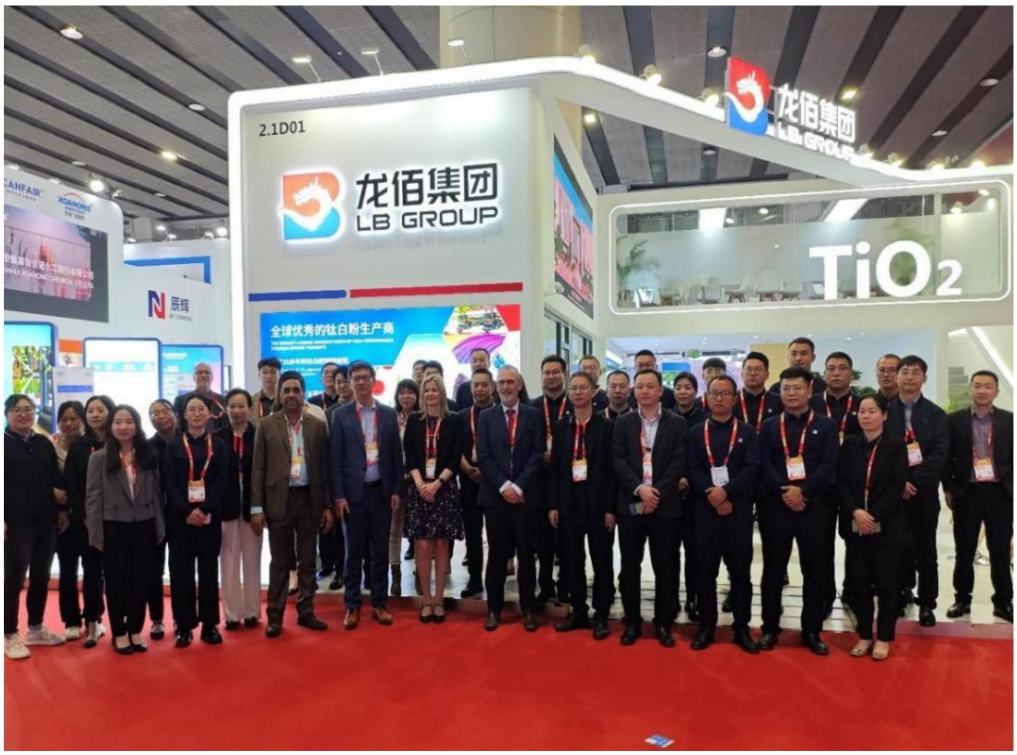
Ren; ÿ Continue to expand international business and seek cooperation and partnerships globally.

2. Industry exhibitions expand brand awareness and enhance product influence.

Actively participating in domestic and international professional exhibitions is a way to showcase new products and technologies, build customer relationships, and expand business.

The best platform for new markets, increasing product promotion and corporate image building, improving market share, and connecting with more customers.

We will establish strong cooperative relationships with our clients. Based in China and with a global perspective, we will help drive the rapid development of new products and technologies.



12. Join hands in green procurement to achieve common growth

(a) Sustainable Procurement Concept

Adhering to the principles of "global resources, international standards, meticulous budgeting, precision, and working together with excellent suppliers"

Guided by the "long-term" procurement and logistics policy, we actively promote green, efficient, and transparent strategic procurement, and optimize...

Procurement processes, adherence to total responsibility in procurement, supplier relations and resource allocation, implementation of green procurement, and achievement of [goals/goals]

This achieves savings, risk reduction, and value maximization.

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(ii) Sustainable Procurement Principles

Reduce resource consumption: Prioritize products and services that are resource-efficient and low-energy.

Reduce carbon emissions: Choose low-carbon or carbon-neutral suppliers and products to promote a green supply chain.

Case Study: In December 2024, for a certain batch of petroleum coke, through TCO cost analysis, based on the location of different production bases,

In terms of logistics cost control, the optimal supplier for total cost is matched, and multimodal transport (water-rail intermodal transport) is used to replace land transport, thereby reducing costs.

This reduces carbon emissions during the transportation process;

Reduce waste: Encourage the use of recyclable, biodegradable, or reusable materials.

Adhere to eco-friendliness: Avoid purchasing products that are harmful to the ecosystem, such as those containing harmful chemicals or originating from...

Materials from unsustainable sources.

(III) Sustainable Procurement Steps

Policy and Objective Setting: Develop clear sustainable procurement policies, setting specific goals and targets to...

The ultimate goal of enterprises is to generate profits.

Supplier evaluation and selection: Environmental and social responsibility assessment criteria will be incorporated into the supplier selection process.

Prioritize suppliers that align with sustainable procurement principles.

Training and Communication: Train the procurement team and relevant stakeholders to ensure they understand and support sustainable development.

Continue with the procurement philosophy, communicate with suppliers, and clarify the requirements and expectations for sustainable procurement.

Performance monitoring and improvement: Regularly monitor supplier performance and assess their environmental, social, and economic aspects.

Based on the evaluation results, continuously improve procurement strategies and practices.

(iv) Sustainable Procurement Initiatives and Results

We have taken a series of measures to actively fulfill our social responsibility. Firstly, we emphasize the selection and use of environmentally friendly materials.

First, prioritize the procurement of materials that meet environmental standards to minimize environmental impact. Second, strengthen communication with suppliers.

Through communication and collaboration, we can jointly promote the green development of the supply chain. We will enhance suppliers' capabilities through training and guidance.

Environmental awareness and capabilities promote the sustainable transformation of the supply chain. Thirdly, we must focus on the prevention and management of supply chain risks.

By regularly monitoring supply chain risks and promptly reporting and addressing risk events, we ensure the safety and stability of the supply chain.

Fourth, strengthen compliance management, establish an internal compliance management mechanism, and implement publicity, investigation, warning, and rectification to ensure procurement.

The activities were legal and compliant. Fifth, we will improve the supply chain system, continuously deepen reforms, and enhance the level of digitalization.

By launching the procurement-sourcing core business through the SRM system infrastructure, the procurement process can be digitally managed.

Sixth, strengthen data visualization construction, through procurement data analysis dashboards.

Specialized analysis of equipment and materials provided strong support for decision-making. Seventh, emphasis was placed on the formulation of processes and systems.

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Optimize to ensure the smooth operation of the supply chain. Improve the supply chain through end-to-end process design and optimization.

Collaboration efficiency and response speed. Eighth, establish a sound supplier management system, classifying and managing suppliers.

Performance evaluation ensures the stability and reliability of the supply chain.

In 2024, the company will implement transparent, streamlined, and standardized procurement procedures.

XIII. Looking Ahead **to 2025**

2025 will be the final year for Longbai Group to achieve its 14th Five-Year Plan. According to the Group's strategic plan...

According to its development plan, Longbai Group will solidly carry out action plans to promote decent employment for employees, social welfare undertakings, and green initiatives.

Responsible procurement, compliant marketing, and other initiatives contribute to building a "Technologically Advanced, Green, Humanistic, and Trustworthy Longbai" brand.

"Bai, Safety Longbai" contributes to enhancing the corporate social responsibility image.

In promoting decent employment for employees:

In 2025, the company will take the in-depth implementation of the Employee Decent Employment Action Plan as the main vehicle to systematically design and unify...

Planning and deployment will focus on systemic reforms in areas such as "upgrading the performance management system and innovating the compensation system."

Deepen the reform of the broadband salary management model, and simultaneously optimize the employee welfare system and career development channels. Run Longbai well.

Childcare centers and after-school programs offer benefits that employees desire, improving their working and living environment and enhancing their career development.

We have established a long-term support mechanism to systematically build a decent employment ecosystem and effectively help employees realize their self-worth and achieve career breakthroughs.

The company will uphold the concept of common growth for the enterprise and its employees, and continuously enhance organizational cohesion and employee sense of fulfillment.

For people with disabilities and other special groups, the company will leverage the role of its employee support center for people with disabilities and continue to attract them.

We will employ people with disabilities, earnestly implement relevant policies and measures to assist and support people with disabilities, innovate activity formats, and optimize hardware and software.

We will improve facilities and services to help people with disabilities solve practical problems and specific difficulties, and consciously safeguard their legitimate rights.

Benefiting employees with disabilities, enabling them to realize their life's value in their positions within the company and feel the warmth of the group; continuously improving the comprehensive welfare system for people with disabilities.

A comprehensive social security system should be established, with multiple departments working together to improve the system and ensure all-round social security coverage, including basic living expenses, medical care, and rehabilitation.

Establish a comprehensive service center integrating rehabilitation training, skills training, and cultural and sports activities; continuously strengthen...

Vocational skills training, based on the physical and mental characteristics of people with disabilities and the needs of their jobs, will provide targeted practical and vocational skills training.

Provide training to enhance employment competitiveness; continuously enrich the spiritual and cultural life of people with disabilities, and regularly organize them to participate in fitness activities.

It will create a diversified interactive platform for activities, cultural performances, and entertainment.

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In terms of dual-carbon management and resource conservation:

In 2025, the company's titanium dioxide production base, based on long-term development, will focus its group's dual-carbon work on prioritizing...

Promote the application of energy-saving and carbon-reduction technologies, give full play to the role of the group's dual-carbon experts, and accelerate the implementation of energy-saving and carbon-reduction projects.

Each production base focuses on oxygen-enriched combustion, low-NOx combustion, waste heat utilization, hot air recycling, high-efficiency refrigeration, and high-performance combustion.

The project also includes a review of technologies such as filter presses and the development of implementation plans, accelerating the implementation of tailings treatments such as coal pulverizers, flash dryers, and industrial kilns.

Utilizing waste heat from natural gas will accelerate the group's green and low-carbon development. The company's carbon reduction goals and vision are: to achieve [a certain goal] by 2020.

Using 2020 as the base year, by 2030, the goal is to achieve a reduction in direct emissions (Scope 1) and indirect emissions (Scope 2) per unit of output.

Carbon emissions will decrease by 30%; using 2021 as the base year, by 2030, the carbon emissions generated across the entire value chain will be reduced.

Other indirect emissions (Scope 3) will reduce carbon emissions per unit of product by 15%.

Regarding corporate compliance:

The Group will adhere to the principles of win-win cooperation and prioritizing efficiency, thoroughly implement strategic marketing concepts and practices, and uphold fairness.

Adhering to the principles of fairness, strengthening the spirit of contracts, enhancing customer credit management, optimizing work processes, and refining marketing and market strategies.

On-site services and process management will be improved, communication and coordination with partners will be strengthened, and cooperation efficiency will be enhanced to achieve better results.

With precise tactics and pragmatic actions, we provide customers with high-quality products and services, thereby increasing market share and brand influence.

This demonstrates the group's leading position and sense of responsibility in the industry.

Regarding the Group's sustainable green procurement:

We will continue to uphold the concept of sustainable development, further promote the transformation and upgrading of our procurement strategy, and strengthen cooperation with suppliers.

To enhance cooperation and exchange, jointly explore green and efficient procurement models; continuously improve digitalization levels, and strengthen digital...

Leveraging analytical and forecasting capabilities, we can provide more precise support for procurement decisions. This is achieved through a steadfast commitment to data-driven decision-making.

The application of visualization in sustainable procurement, guided by digitalization and intelligence, aims to create an efficient, transparent, and [unclear - possibly related to procurement processes].

A green and collaborative supply chain management system lays a solid foundation for the sustainable development of enterprises, enabling them to achieve procurement...

Sustainable development of the event. Firstly, it will rely on advanced digital technologies to build a comprehensive, integrated, and intelligent system.

The procurement management platform enables visualization of the procurement process, ensuring transparency and traceability. Secondly, it facilitates...

Through data visualization, inventory status, procurement progress, and logistics can be monitored in real time, enabling precise control of supply chain resources.

Accurate allocation.

Regarding gratitude and giving back to society:

In 2025, Longbai Group will formulate a social responsibility investment plan and carry out distinctive rural revitalization and corporate social responsibility initiatives.

Activities such as joint construction with local governments, social donations, charitable assistance to students, care for the elderly and disabled, and public welfare visits, as well as various charitable projects jointly built with local enterprises.

We will strengthen our charitable activities, enhance collaboration and communication with higher-level Red Cross societies, charity organizations, and other charitable organizations, and expand our reach.

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Highly distinctive social welfare projects, diverse in form, and broad in beneficiaries, drive social labor force development through industrial upgrading.

Stable growth in employment and economic benefits will contribute to building Longbai's social responsibility culture brand, revitalizing social and economic development, and promoting charitable causes.

Longbai contributes its strength to good causes.

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XIV. Comparison Table of the Ten Principles of the United Nations Global Compact

The Ten Principles of the Global Compact	Longbai's actions in **2024**
human rights	
Principle 1: Enterprises should respect and uphold all internationally recognized human rights.	Longbai Group respects and protects its employees' rights in terms of safety, freedom, equality, and welfare. right.
Principle 2: Never participate in any indifference Acts that violate human rights	Longbai Group strictly abides by the "Labor Law of the People's Republic of China" and other relevant laws and regulations. We uphold equal employment practices, continuously expand opportunities for talent development, and promote democratic management within the company. We will supervise and actively build a comfortable environment for employees' rest days, and effectively protect their legitimate rights and interests. The company respects human rights under all circumstances and abides by the Universal Declaration of Human Rights and other internationally signed documents. International conventions or practices that are signed or recognized.
Labor Standards	
Principle 3: Enterprises should maintain the structure Freedom of society, recognition of collective bargaining between labor and management The right to judge	Longbai Group has established a labor union organization and built effective communication channels with employees, fully leveraging... Listen to employees' opinions and suggestions, and effectively protect their right to know, participate, and supervise. The implementation of rights. The union establishment rate is 100%, and the employee membership rate is 100%.
Principle 4: Completely eliminate all forms Forced labor	Longbai Group complies with the requirements of the Labor Contract Law and other relevant laws and regulations, and attaches great importance to safeguarding labor rights. Employees' basic rights must be protected, and the use of child labor must be resolutely eliminated. Adhering to the principles of "mutual consent and two-way selection,"...
Principle 5: Eliminate child labor	We adhere to the principle of "selection" in recruitment, and do not force employees to work; once employees are on the job, we do not force them to perform their duties. The company adheres to the principle of voluntary overtime work and pays overtime wages in accordance with regulations. Relevant laws stipulate that labor contracts must be signed with employees, with a 100% labor contract signing rate. The contribution rate for the five social insurances and one housing fund is 100%.
Principle 6: Eliminate any employment practices. Industry-related discrimination	Longbai Group has always adhered to an equal and non-discriminatory employment policy, ensuring that employees are not discriminated against based on race. Discrimination based on factors such as ethnicity, gender, age, disability, and marital status in recruitment is unacceptable. In all aspects, including personnel management, job adjustments, compensation and benefits, career development, and resignation management. All employees are treated equally and without discrimination. The company recruits people with disabilities to participate in company days. The company is in regular production and operation, and the proportion of disabled employees is 1.62% of the total workforce.
environment	
Principle 7: Enterprises should respond to environmental challenges.	Longbai Group actively responds to climate change, consciously assumes international environmental responsibility, and establishes a sound system.

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Prepare for a rainy day	A comprehensive ecological and environmental protection management mechanism is in place, with a high degree of emphasis on the company's environmental performance. We have focused on building a robust management system, actively promoting green management, and have passed ISO14001 environmental management certification. The company has obtained certification and has established an environmental and occupational health and safety management system (HSE).
Principle 8: Proactively increase environmental protection efforts The responsibility undertaken	To strengthen energy management, the company consistently adheres to green chemistry and clean production, reducing waste. Energy consumption. In accordance with national energy policies and energy management standards, and in conjunction with the company's production... Based on the actual situation of production and material consumption, the "Energy Management System" and "Water and Electricity Consumption Management System" were formulated. The management system effectively eliminated waste and improved energy efficiency.
Principle 9: Encourage environmentally friendly technologies The development and promotion of technology	Longbai Group emphasizes environmental protection factors in the product design process, reducing resource and energy consumption. Consumption reduction, focusing on sustainable development; using more environmentally friendly raw materials in product manufacturing processes. Pay attention to product safety and ensure that the product ingredients do not contain substances harmful to the human body. To maximize the reusability and recyclability of products. This includes consideration of product composition and structure. Green concepts are incorporated into the design of structure and performance to save resources and energy and reduce pollutants. Reduce emissions, improve product quality, and minimize negative impacts on the environment and human health.

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15. G4 Pointer Index

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