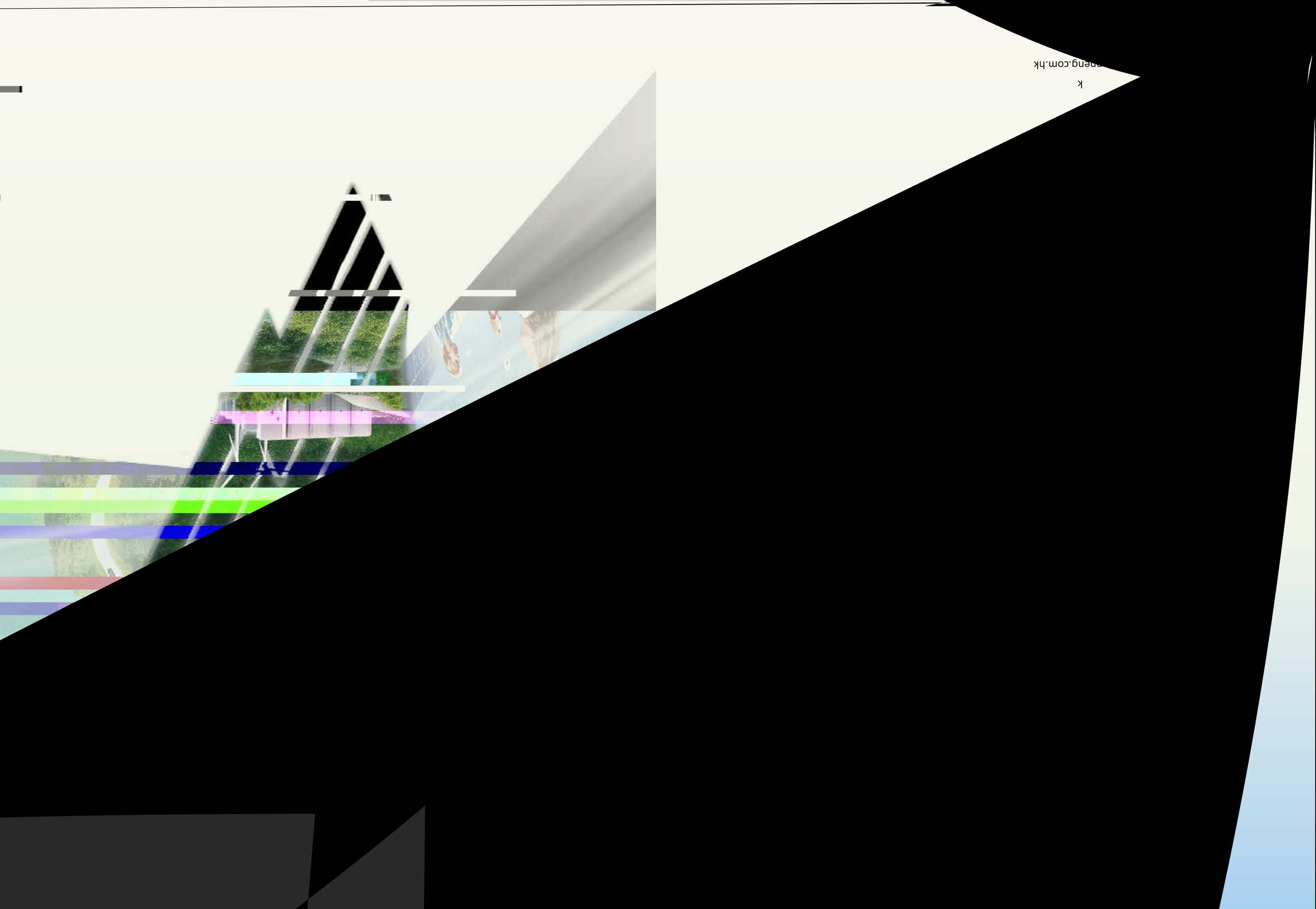


Report Overview

This report covers the environmental, social, and governance performance of Tianneng Power International Limited (the “Company”) and its subsidiaries (collectively referred to as the “Group” or “Tianneng”) for the period from January 1, 2024, to December 31, 2024. Certain sections may refer to data from prior years as necessary.

This report is the 11th Environmental, Social, and Governance (ESG) report prepared by the Group since 2014. The preparation of this report follows the principles outlined below.

Materiality: The Group values regular communication with internal and external stakeholders to identify and address material topics relevant to its operations. These topics encompass ESG matters that may have a significant impact on investors and other stakeholders, forming the core content of this report. Through this report, the Group demonstrates its strategies, initiatives, and achievements in these areas, helping stakeholders gain a comprehensive understanding of its sustainability practices.

Quantitative: Wherever possible, this report discloses key performance indicators in a quantitative manner to ensure transparency and comparability. The data presented is sourced from the Group’s annual reports, official records, and statistical materials, primarily covering the year 2024, with some comparative data from previous years. Unless otherwise stated, all monetary amounts in this report are presented in RMB.

Balance: This report strives to provide an objective and fair reflection of the Group’s ESG management performance. It highlights the achievements made in advancing sustainability while also acknowledging the challenges encountered.

Consistency: The report applies consistent disclosure and statistical methodologies to ensure the comparability of ESG information over time. It also provides meaningful analyses of data trends. By employing standardized methodologies and indicator frameworks, the Group systematically presents its long-term sustainability performance and trends.

02



ESG

2024

ESG Performance Highlights for the Year

Quantitative Performance Breakdown

2024 Honors Awards

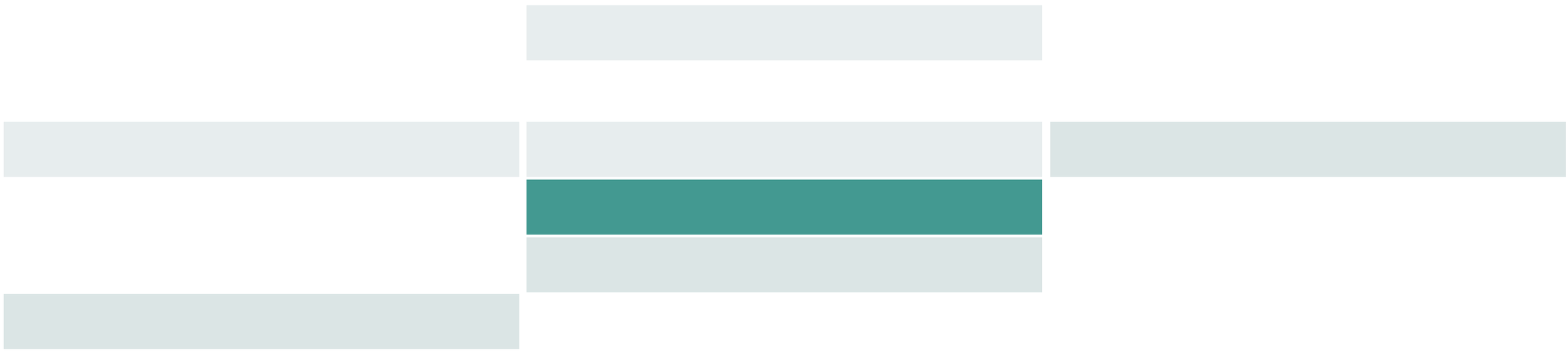
ESG Goal Management

ESG Governance System

Board Statement

As a leader in the new energy motive battery industry, the Group's business strategy is centered on "core consolidation, technological innovation, and global expansion," with a focus on two core areas: new energy technology and the circular economy. While consolidating its traditional lead-acid battery business, the Group actively invests in innovative areas such as lithium batteries, hydrogen fuel cells, sodium-ion batteries, energy storage technologies, and resource recycling. It has established a closed-loop industrial chain that covers R&D, production, and recycling, laying a solid foundation to achieve its goal of becoming a global leader in the new energy sector.

Adhering to an operational approach deeply integrated with ESG principles, the Group continues to strengthen its sustainable development practices, promoting green manufacturing, low-carbon operations, and the application of the circular economy model. The Company is committed to providing innovative solutions for global energy transformation, achieving a balance between environmental and social benefits, while creating long-term value for stakeholders through its industry



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In 2024, the Group strengthened its regular communication mechanisms to ensure that stakeholder feedback is promptly reflected in management decisions. Through in-depth discussions with employees, shareholders, customers, and suppliers, we gathered valuable input on operations, social responsibility, and environmental protection, using these insights to optimize internal processes and enhance sustainability initiatives.

Furthermore, the Group remains committed to transparency and accountability by actively responding to stakeholder expectations. We reinforce this commitment through regular ESG disclosures and feedback mechanisms to ensure continuous improvement. We believe that efficient and responsive engagement not only enhances competitiveness but also strengthens stakeholder trust and support, driving the Group's long-term sustainable development.

Importance	Issues	Scope
Very Important	Compliance and Legal Operation	Governance topics
	Business Ethics and Anti-Corruption	
	Risk Control and Internal Control	
	Information Security and Privacy Protection	
	Operating Performance and Financial Condition	
	Employee Training and Development	Social topics
	Occupational Health and Safety	
	Product Quality and Safety	
	Intelligent Manufacturing and Digitization	
	Customer and Consumer Protection	
	Sustainable Supply Chain Management	
	Environmental Management System	Environment topics
	Coping with Climate Change	
	Clean Technology Opportunities	
	Greenhouse Gas Emission Reduction	
	Resource Conservation and Renewable Energy Utilization	
Relatively Important	Corporate Governance	Governance topics
	Intellectual Property Protection	
	ESG Governance	
		Social topics
	Green Product Development	Environment topics
	Waste Management	
	Hazardous Chemicals Management	
	Environmental Protection Philosophy	

03

Governance

The Group adheres to the principles of “complying with laws to govern the enterprise and upholding integrity in business operations,” with integrity as its core value. We strictly comply with the Listing Rules and relevant laws and regulations, ensuring that our corporate governance meets the highest standards and protects the legitimate rights and interests of shareholders and stakeholders. At the same time, the Group focuses on integrating compliance with innovation, continuously optimizing management mechanisms, and promoting transparent, fair, and efficient governance.

The Board of Directors is responsible for making major decisions for the Group. It consists of nine members, including four independent non-executive directors. The main functions of the Board include reviewing and approving the company’s strategy, assessing the internal control systems, and ensuring operational compliance. We hold regular Board meetings to ensure transparent decision-making, allowing directors to express their opinions fully and effectively supervise the management team. In 2024, the Board appointed a female

The Remuneration Committee is responsible for formulating and reviewing the remuneration policies for directors and senior management, ensuring that compensation arrangements are fair and reasonable, and advising on matters related to the remuneration of non-executive directors and stock option plans.

To ensure legal compliance, the Group employs professional legal advisors and has established an Internal Control and Legal Affairs Center and an Audit and Supervision Center to monitor operational decisions and internal control systems in real time. The Group also has a strict information disclosure system in place, ensuring the regular disclosure of reports and ad-hoc announcements to protect shareholders’ legitimate rights.



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The internal control management department is responsible for organizing risk management-related training, which includes training sessions and seminars to promote risk management knowledge and enhance risk awareness. These training programs cover the business and decision-making processes across the Group and its subsidiaries, helping to foster a risk culture, improve the company's risk management capabilities, and enhance employee quality, thereby ensuring the achievement of management objectives.

In addition, the Group has engaged Deloitte Touche Tohmatsu to provide audit

Passed the evaluation of Nationally Recognized Enterprise Technology Center	3	subsidiaries
National Science and Technology-based Small and Medium-sized Enterprises (SMEs) Certification	1	subsidiary
Zhejiang Province Science and Technology Leading Enterprise Certification	2	subsidiaries
Zhejiang Advanced Future Technology Innovation Achievements	1	item
Recognized as the Zhejiang Province High-tech Enterprise Research and Development Center	1	subsidiary
Recognized as the Science and Technology-Based Small and Medium-Sized Enterprise in Zhejiang Province	3	subsidiaries
Recognized as the provincial Innovative Small and Medium-Sized Enterprise	3	subsidiaries

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As of December 31, 2024, the Group has participated in the formulation of 265 standards, including 4 international standards, 104 national standards, 51 industry standards, and 106 group standards.

ɾ Mid-Autumn Festival Gala



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In September this year, the Group hosted the "Pursuing Passion · Dreaming Together" Mid-Autumn Festival Gathering, inviting selected employees, their family representatives, and members of the Xinchuan Village Committee to join in the celebration. Together, they appreciated the full moon and shared in the joy of reunion. This event fully showcased Tianneng's family culture, integrating the "small family" into the "big family." Moving forward, Tianneng people will continue to work hand in hand, striving for a better life and achieving common goals.

˛ ◖ Labor Day & Youth Day Commendation Conference



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In April, the Group held the "Tribute to Strivers, Leading the Way"—Labor Day & Youth Day Commendation Conference, providing a platform for Tianneng's dedicated workforce to drive reform and innovation, talent empowerment, and practical achievements. This event served as a strong cultural and talent foundation to support the Group's high-quality and sustainable development.



Climate Risk Management

Energy Management

Environment

During the reporting period, the Ministry of Commerce of China, along with five other departments, issued the “Implementation Plan for Promoting the Trade-In of Electric Bicycles.” The plan proposes that consumers who return old lithium-ion battery electric bicycles in exchange for lead-acid battery electric bicycles may receive enhanced subsidies. In addition, the Ministry of Industry and Information Technology, along with five other departments, published the newly revised “Safety Technical Specifications for Electric Bicycles,” which relaxes the weight limit for lead-acid battery electric bicycle models from 55kg to 63kg. The series of preferential subsidy policies and industry standards introduced by the government not only reflect recognition of the safety and cost-effectiveness of lead-acid battery electric bicycles but also align with the national goal of addressing safety hazards in the electric bicycle sector.

Lead-acid batteries continue to dominate the electric bicycle battery market due to their higher safety and lower cost, which have made them widely favored by consumers. Encouraging consumers to switch to lead-acid battery electric bicycles meets the practical needs of safety improvements across the entire electric bicycle value chain and reflects the country's principle of promoting green transportation while prioritizing safety.

The “Top 10 Energy Storage Battery Brands of the Year”

2024 ẩ ǐ ṇ ᵐ ᴴ :

The emissions of some of the Group's subsidiaries in 2024 were as follows:

ṇ ᵢ ǐ ṇ ώ Name of company or subsidiary	ᵩ ώ Name of main pollutants and characteristic pollutants	ᵢ ᵐ Emission method	ᵐ Ãmg/m´ ă Pollutant emission standards implemented	ᵐ ᵪ Ã / ă Total approved emission (tonnes/year)	ᵐ Excessive emission
	ḛ ¨Ḥ Lead and its compounds	ᵐ ᶢ Organised emissions after treatment			
	ḛ Nitrogen oxide				
	ḛ Chemical oxygen demand				
	Ammoniacal Nitrogen				
	Total lead				
	ḛ ¨Ḥ Lead and its compounds	ᵐ ᶢ Organised emissions after treatment			
	ḛ Nitrogen oxide				
	Total lead				
	ḛ Chemical oxygen demand				
	Ammoniacal Nitrogen				
	ḛ ¨Ḥ Lead and its compounds	ᵐ ᶢ Organised emissions after treatment			
	Total lead				
	ḛ Chemical oxygen demand				
	Ammonia				
	ḛ Sulfur dioxide	ᵐ ᶢ Organised emissions after treatment			
	ḛ Nitrogen oxides				
	Sulfur dioxide Total lead ḛ ¨Ḥ Totampounds				
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	Total ḛ lead				
	Chemical oxḛ¨ḤḤ demand	ᵐ ᶢ Organised emissions after treatment			
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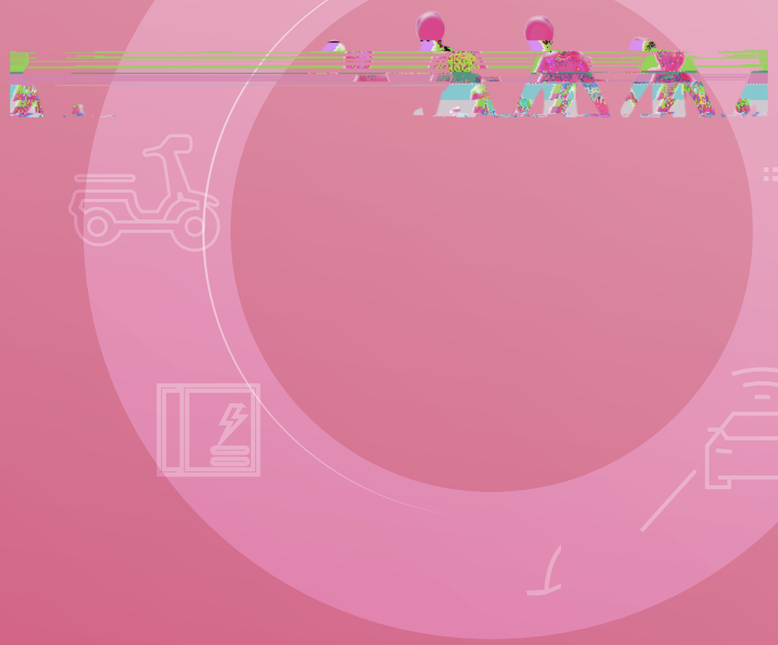
ñ ì Ï ñ ì Name of company or subsidiary	Name of main pollutants and characteristic pollutants	Emission method	Pollutant emission standards implemented	Total approved emission (tonnes/year)	
Ì ñ Zhejiang Tianneng Power Supply Material Co.,Ltd.	Particulates	Post-treatment discharge	10		
	Lead and its compounds		0.4/DA006 0.6 2(Commitment to s 1		
	Arsenic and its compounds		0.4 25 0. 1		
	Tin and its compounds		1 0./ 1		
	Antimony and its compounds		1		
	Nitrogen oxide		100		
	Sulfur dioxide		100		
	Chemical oxygen demand	Post-treatment discharge	500		
	Ammoniacal nitrogen		25		
	Total lead		0.2		
	Total arsenic		0.1		
	Total cadmium		0.01		
	Total antimony		0.3		
Ì Ä ă ñ Tianneng Group (Puyang) Renewable Resources Co.,Ltd.	Lead and its compounds	Post-treatment discharge	2		
	Arsenic and its compounds		0.4		
	Tin and its compounds		1		
	Antimony and its compounds		1		
	Particulates		10		
			20		
	Sulfur dioxide		100		
	Nitrogen oxides		100		
	Chemical oxygen demand	No external discharge			
	Ammoniacal nitrogen				
	Total lead				

Circular economy is one of the core strategies for the Group's sustainable

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The Group's Li-ion battery recycling production base

05



- Product Responsibility
- Customer Service

- Employment and Labor
- Talent Reserve
- Employee Development
- Employee Training
- Employee Satisfaction


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Establishing a strong customer service system is crucial for any business. The Group places great importance on customer service, and the customer service system we have built enables us to continuously improve the customer experience. Following the Group's "400 Platform Market Customer Complaint Management Measures," we focus on protecting consumer privacy while enhancing customer satisfaction, increasing brand value, and improving market competitiveness. This allows us to stand out in the highly competitive market and gain a long-term development

Service Philosophy: Customer-centric, fast response; handle issues from start to finish, with attention to detail; improve service speed, complete daily tasks; standardize service standards, unify service processes.

Core Strategy: Add value to the brand, create user satisfaction, and build a value-driven win-win service ecosystem.

Two Key Functional Positions: Unified customer service window, unified information-driven platform.

Five Empowering Roles: Collecting customer needs and providing services, building and

Service Mission:Dedicated service, pursuit of excellence.

Service Policy: Satisfy customers, gain customer recognition.

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The sustainable development goals covered in this chapter:



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The Group places great emphasis on technological research and development, assembling an innovation team composed of top international experts from the United States, Japan, South Korea, and other countries. The team covers various fields such as new energy batteries, new energy materials, smart manufacturing, and green recycling. The Group has established several technology innovation platforms, including a national-level technology center and a postdoctoral research station.

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In 2024, the Group established a Technology Management Center to coordinate technological innovation activities and integrate them into the Group's strategy. The Group has increased investment, coordinated planning, and strengthened coordination to efficiently advance technological innovation. At the same time, the Group has improved and issued various management systems, including the "R&D Project Management Measures" and the "Major R&D Project Management Measures," to strengthen project management and institutional support.

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Additionally, the Group has established the R&D strategic direction of "becoming a global technological leader and value co-creator in the new energy industry." Each business segment has decoded sub-strategies and built two core technological capabilities: leading technology performance and cost leadership. By 2024, the Group has established over 60 related policies, achieving full lifecycle management of projects, covering stages such as project initiation, planning, implementation, and results conversion. The Group also has a Technology Innovation Committee, which regularly holds meetings to review the R&D strategy and annual plans. In 2024, the Group is involved in 11 ongoing industry-academia-research cooperation projects, focusing on high-energy-density battery development and battery recycling technologies.

2024 تخي ڭ Й

Lead-acid Battery

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The Group has enhanced the overall performance of lead-acid battery products through the application of micro-nano lead-carbon key technology. In the "Super Car High Energy Edition" battery, in addition to using graphene patented technology, the newly added micro-nano lead-carbon technology effectively solves the issues of poor affinity and aggregation in traditional lead-carbon materials. This technology prepares lead-carbon composite materials through low-temperature decomposition reactions, loading nano-scale PbO particles, which significantly improves the battery's charge and discharge performance and the anode cycle life.

ٱ Lithium-ion Battery

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The Group has collaborated with Tsinghua University on lithium battery development, lifespan prediction, and failure mechanisms, researching efficient, low-cost, and highly sensitive large-scale energy storage battery cell difference detection technologies. The collaboration aims to establish lithium-ion battery lifespan prediction models and non-discharge battery capacity distribution prediction models.

ф Solid-State Batteries

Ā 300Wh/kg 400Wh/kg
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The Group has independently developed 300Wh/kg and 400Wh/kg high-safety solid-state battery cells, which have passed safety performance tests such as puncture and overcharge. The battery cell is tested to have better life cycle, positioning it at the leading level in the industry.

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The Group has completed batch shipments of its core component membrane electrodes. In July of this year, 10 hydrogen fuel cell systems independently designed and produced by the Group were officially delivered, and they will be installed in buses in Guangde City, Anhui Province.

Regarding recruitment, employment, and promotion, the Company upholds the principles of equal opportunity and diversity. All employees, regardless of ethnicity,

In terms of talent selection, Tianneng implements a strategy of "open external recruitment and balanced internal development." On the one hand, the Company continuously introduces industry-leading talents, R&D experts, and high-end professionals in various functional fields to optimize organizational structure and enhance overall combat effectiveness. On the other hand, Tianneng actively attracts excellent talents through campus recruitment, continuously injecting fresh blood into its talent pool. The Company has established a five-level talent pool covering "management trainees—manager-level executives—director-level executives—general manager-level executives—leading talents," focusing on the selection and cultivation of high-potential talents. Through regular executive reviews, the Company improves its succession planning for key positions, ensuring the healthy development of its talent pipeline.

The Group attaches great importance to investor relations management and is committed to safeguarding investors' right to information and promoting investor education and protection. On the basis of strict compliance with information disclosure requirements, the Group maintains close interaction with investors through diversified communication channels, including investor hotlines, regular investor meetings, email communication, reception of visitors, investor relations columns on the Company's website and the official WeChat platform, etc. The Group has actively strengthened the construction of its investor relations platform and enhanced the efficiency and quality of its services.

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The sustainable development goals covered in this chapter:



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As a leading enterprise in the new energy battery industry, the Group drives high-quality development through technological innovation while actively fulfilling its role as a "corporate citizen," giving back to society through concrete actions. Over the years, Tianneng has donated millions of RMB in materials and cash to support various disaster relief efforts, public welfare, charity, elderly care, and education assistance.

3 Case

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Tianneng Puyang Company Achieves SigniLJcant Results in Assisting Disabled Employment

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Since its establishment, Tianneng Puyang Company has actively fulfilled its social responsibilities by providing skill training, hardship subsidies, and visitation support, promoting high-quality employment for disabled individuals. Currently, the company has a total of 3,180 employees, with over 50 disabled employees, making it the private enterprise with the most disabled employment positions in Puyang City. The company has been awarded the title of “National Disabled Employment Base According to Proportional Employment.”



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Veteran Employment

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The Group implements a priority recruitment policy for veterans. As of 2024, the Group employs over 400 veterans, among whom 10 serve in senior management positions and over 130 serve in junior and middle management roles.

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Tianneng Meishan Company Organizes Voluntary Blood Donation Campaign

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Recently, Tianneng Meishan Company organized a voluntary blood donation campaign titled "Voluntary Blood Donation, Great Love from Tianneng," with active participation from employees. The company has been fulfilling its social responsibility by organizing voluntary blood donation events for over 10 years. A total of 112 blood donations have been made, amounting to 33,200 milliliters of blood, demonstrating the company's commitment to social responsibility and corporate accountability through tangible actions.



The Group fulfils its tax obligations in a compliant manner by accurately filing and paying all taxes. The Group complies with national tax laws and regulations and actively co-operates with the tax authorities in their audits and investigations to ensure the transparency and truthfulness of tax returns. Through reasonable and lawful tax planning, the Group has created more job opportunities and wealth for the country's economic development while safeguarding its own development.

The sustainable development goals covered in this chapter:



Mr. Zhang Tianren, Chairman of the Board of Tianneng Group, has long been committed to promoting green and sustainable development. During his 12 years as a National People's Congress (NPC) representative, he has diligently fulfilled his duties with great political enthusiasm and responsibility. During the 2024 Two Sessions, Representative Zhang reviewed various reports and resolutions carefully and submitted 4 legislative proposals and over 20 high-quality suggestions to the NPC. These proposals cover critical national strategies and social livelihood issues, including renewable energy, climate change response, elderly care services, industry associations and chambers of commerce, promoting the development of the new energy industry, advancing rural revitalization and common prosperity, supporting the real economy, advocating green development, ensuring electric vehicle safety, and fostering regional economic growth.

Proposal to Amend the Renewable Energy Law

The Renewable Energy Law, implemented in 2006 and amended by the Standing Committee of the National People's Congress in 2009, has been in effect for 14 years. With the development of the industry, the law has achieved positive results but also contains some constraints and gaps. It is proposed to amend and improve the full-guarantee purchase system, establish a scientific and reasonable assessment mechanism, optimize and adjust the electricity price subsidy, and refine the relevant legal responsibility provisions.

Proposal to Accelerate the Formulation of the Climate Change Law and Establish a Carbon Emission Reduction Legislative System

The "3060" dual-carbon target is a major strategic decision made by China after careful consideration of both domestic and international dynamics. It reflects China's commitment to actively addressing the global climate crisis and contributing to the building of a community with a shared future for mankind. Climate change is a crisis that affects all of humanity, requiring multi-party participation and coordinated governance. It is recommended to accelerate the formulation of the Climate Change Law to establish a carbon emission reduction legislative framework, which is an urgent need for achieving the dual-carbon goals. This will provide legal support for accelerating the transition to a green, low-carbon development model and help China gain a proactive role in deepening bilateral and multilateral cooperation in climate-related fields.

Proposal to Formulate the Elderly Care Services Law

As China has entered an aging society, there is currently no comprehensive Elderly Care Services Law. It is proposed to establish such a law to build a multi-party participation framework for elderly care services, encourage innovation in elderly care technologies, improve the family-based elderly care support system, and strengthen regulatory and legal safeguards.

Proposal to Formulate the Industry Associations and Chambers of Commerce Law

Industry associations and chambers of commerce play an important role in China's economic construction and social development. However, there is currently no specialized legislation for industry associations. It is proposed to draft the Industry Associations and Chambers of Commerce Law, which would define the nature, responsibilities, and rights of these organizations. This law would standardize management, empower services, establish a comprehensive regulatory system, protect the legal rights of members, and further stimulate market vitality, creating a fair, just, and transparent environment for market participants.







06



Thematic Section

Focusing on technological innovation in areas such as smart energy storage and hydrogen energy, the Group continues to enhance its independent innovation capability in the field of circular economy and promote technological advancement in the industry, accumulating rich technological experience and project cases. The green industry is not only a test of an enterprise's determination, but also the core

Intelligent Manufacturing Line



As an emerging sector within the new energy industry, the power battery recycling system and processing technologies are continuously developing and improving, injecting strong momentum into the construction of a green, low-carbon circular economy. Through scientific management measures, the Group fully utilizes recyclable pollutants and waste materials for resource recycling, reducing environmental pollution while enhancing resource efficiency. In the field of power battery recycling, the Group has set a benchmark for green development by continuously innovating in battery production R&D, retired battery recycling, and utilization, ensuring the safety and stability of the industrial chain.

Through the development of circular industries, the Group has achieved an organic integration of environmental, economic, and social benefits, providing crucial support for green value-added growth. Through green manufacturing and circular recycling, the Group integrates the concept of green development across the entire product lifecycle, from design and manufacturing to recycling and disposal, forming a closed-loop green industrial chain. By adhering to the core strategy of green
[illegible], the Group has established a sustainable development benchmark for lo"nufacturi— recy

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Key Categories, Dimensions, General Disclosure and Key Performance Indicators		GRI GRI Standard		Disclosure Content
B3.1				
B3.2	Average number of hours of training completed per employee, by gender and employee category		Training and Education Disclosure 404-1	
B4				
B4.1				Employment and Labor
B4.2				
B5				
B5.1				
B5.2				
