

(於開曼群島註冊成立之有限公



Report Overview



About the Report

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.

Scope of the Report

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.

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Report

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02



Sustainability Strategy



ESG
2024

Company Overview
ESG Performance Highlights for the Year
Quantitative Performance Breakdown
2024 Honors Awards

ESG
ESG
ESG

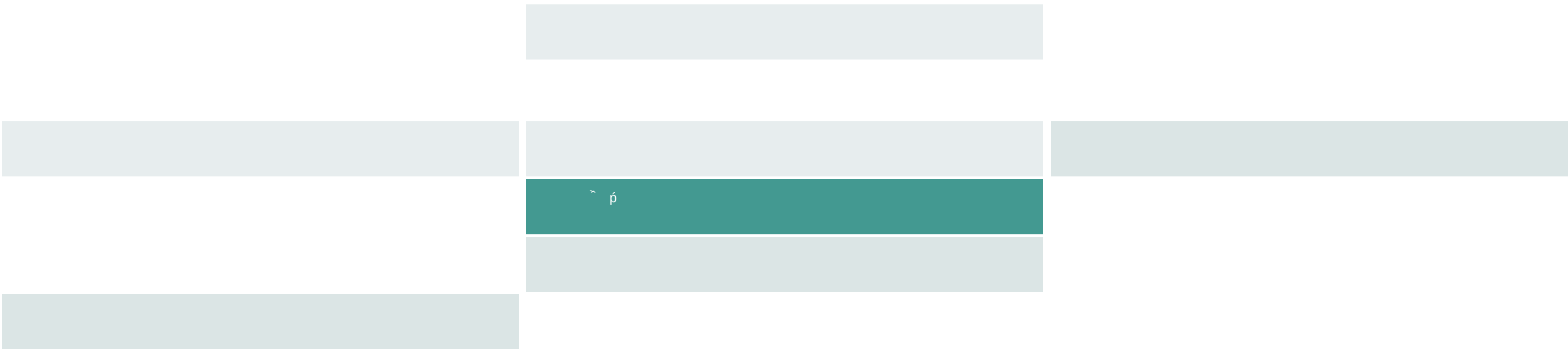
ESG Philosophy and Vision
ESG Goal Management
ESG Governance System
Board Statement

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Stakeholder Engagement

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Materiality Assessment



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Honours and Awards Received by the Group (Including Its Subsidiaries) in 2024

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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	“H” “H” F “J” “J” “3” “3” “p” “z” “p” “J” “è”	Compliance and Legal Operation Business Ethics and Anti-Corruption Risk Control and Internal Control Information Security and Privacy Protection Operating Performance and Financial Condition	Governance topics
	“’” “3” “3” “J” “F” “F” “p” “-” “-” “p” “” “è” “è” “z” “f” “A”	Employee Training and Development Occupational Health and Safety Product Quality and Safety Intelligent Manufacturing and Digitization Customer and Consumer Protection Sustainable Supply Chain Management	Social topics
	“” “b” “è” “Q” “b” “A” “t” “è”	Environmental Management System Coping with Climate Change Clean Technology Opportunities Greenhouse Gas Emission Reduction Resource Conservation and Renewable Energy Utilization	Environment topics
Relatively Important	“p” “J” “z” ESG “’” “S” “’” “.” “.” “.” “’”	Corporate Governance Intellectual Property Protection ESG Governance	Governance topics
			Social topics
	“-” “” “O” “è” “-” “z” “z” “b”	Green Product Development Waste Management Hazardous Chemicals Management Environmental Protection Philosophy	Environment topics

03

Governance



Risk Management and Control

Information Security and Privacy Protection

Anti-Corruption and Business Ethics





Governance



Corporate Governance and Compliance

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

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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.

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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 Group's risk identification and assessment management process is described below.

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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.

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cleanliness education, including party activities, watching of warning films and thematic training, and inviting public security officers to participate in the training programs. Tianneng University has organized 85 training sessions on integrity education in 2024, including party day activities, warning film viewings and thematic training, inviting public security authorities to conduct on-site law enforcement demonstrations, and producing thematic warning films, thus creating a strong

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通過國家企業技術中心評估	3 家附屬公司
通過國家科技中小企業認證	1 家附屬公司
浙江省科技領先企業認證	2 家附屬公司
浙江省先進未來技術創新成就	1 項
被認定為浙江省高新企業研發中心	1 家附屬公司
被認定為浙江省科技中小企業	3 家附屬公司
被認定為省級創新中小企業	3 家附屬公司

2024 年 12 月 31 日	參與制定標準 265 項	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.
其中：國際標準 4 項	國家標準 104 項	
行業標準 51 項	集團標準 106 項	

文化發展

Cultural Development

中秋節聯歡會

Mid-Autumn Festival Gala



今年 9 月，集團舉辦了「追尋激情·共夢一起」中秋節聯歡會，邀請了選定的員工、他們的家人代表以及新川村委會成員參加慶祝活動。大家共同欣賞了中秋佳節，並分享了團圓的喜悅。此次活動充分展示了天能的家庭文化，將「小家庭」融入到了「大家庭」中。向前邁進，天能人將繼續攜手並進，為追求更好的生活和實現共同目標而努力。

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.

勞動節及青年節表彰大會

Labor Day & Youth Day Commendation Conference



4 月，集團舉辦了「致敬奮鬥者，引領前行」——勞動節及青年節表彰大會，為集團的辛勤工作者提供了一個推動改革和創新、人才賦能、實踐成就的平台。此次活動作為天能強文化、聚人才的重要支撐，為集團的高質量、可持續發展提供了堅實的支持。

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.

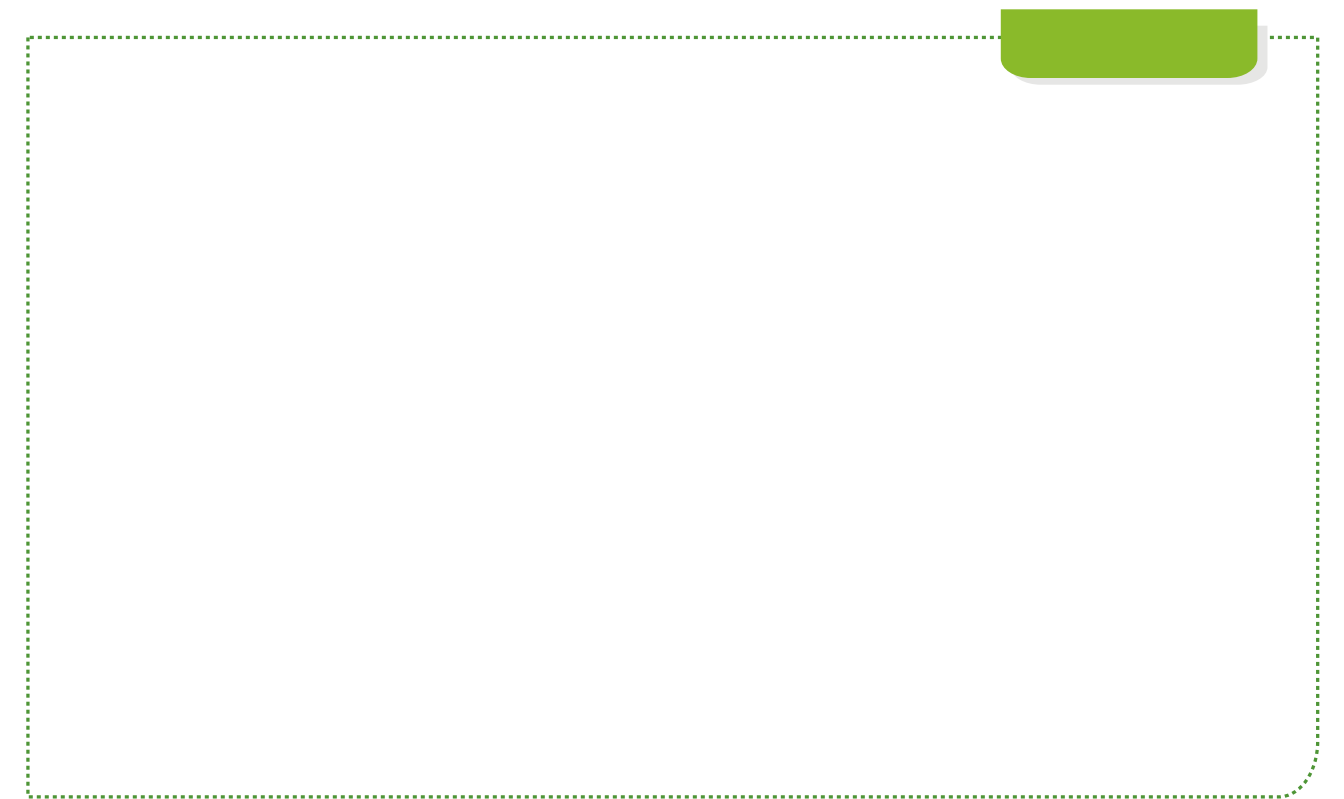
Environment

Carbon Neutrality and Energy Transition

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.

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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.

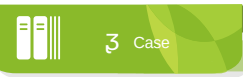


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The CTop 10 Energy Storage Battery Brands of the Year

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Promotion of clean energy

Resource Conservation and Pollution Control

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The sustainable development goals covered in this chapter:



Pollutant Management

The Group has passed the ISO14001 Environmental Management System Certification. In order to strengthen environmental protection management and reduce pollutant emissions, we have promulgated and implemented the Compilation of Environmental Safety Management System of Tianneng Holding Group (Version B/0), which includes the following systems: Environmental Safety Equipment and Facility Management System, Pollutant Management System, Environmental Safety Monitoring and Early Warning Management System, Three Simultaneity Management System for Environmental Safety, Environmental Safety Approval and Management System for Investment Projects, Clean Production Management System and Carbon Resource Management System, among others.

The Group follows the pollutants emission limit standards of various countries and local governments, constructs a comprehensive pollutant prevention and control system that combines pollutants self monitoring, third-party commissioned testing, online monitoring of fixed pollution sources, and government supervision. With the most advanced technology and equipment in the industry, the Company is able to ensure the long-term stable operation of treatment facilities and standard discharge of various pollutants, including waste gas and wastewater.

Exhaust Gas: The Group adopts appropriate process means, introduces advanced equipment, and takes multiple measures to properly treat the exhaust gas in the production process to meet the regulatory requirements.

Wastewater: The Group strictly abides by the Water Pollution Prevention and Control Law and other laws and regulations, carries out unified management of wastewater generated in the plant and conducts spot checks on treated wastewater to ensure that the quality of discharged wastewater complies with the Comprehensive Wastewater Emission Standards and local discharge requirements. The Group is at the international leading level in terms of wastewater pollution control in the various industries.

Hazardous Solid Waste: The Group has prepared the Solid Waste Management System, constructed a hazardous waste storage room in accordance with the provisions of the Solid Waste Prevention and Control Law for the lead-containing wastes, waste labor insurance and other hazardous wastes generated in the production process, standardized the process of collection, storage, transfer and disposal, and regularly entrusted qualified disposal units to dispose of them, and perfected the ledger to realize the management of the whole life cycle of generation, storage and disposal.

Harmless Solid Waste: For harmless solid waste generated from operation, including waste packaging materials, scrap iron and other general solid waste, the Company establishes a general solid waste storage room and entrusts qualified disposal units to carry out recycling, realizing classified collection, transfer and compliant disposal of general solid waste. Domestic garbage is regularly handed over to the local sanitation department for proper disposal.

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

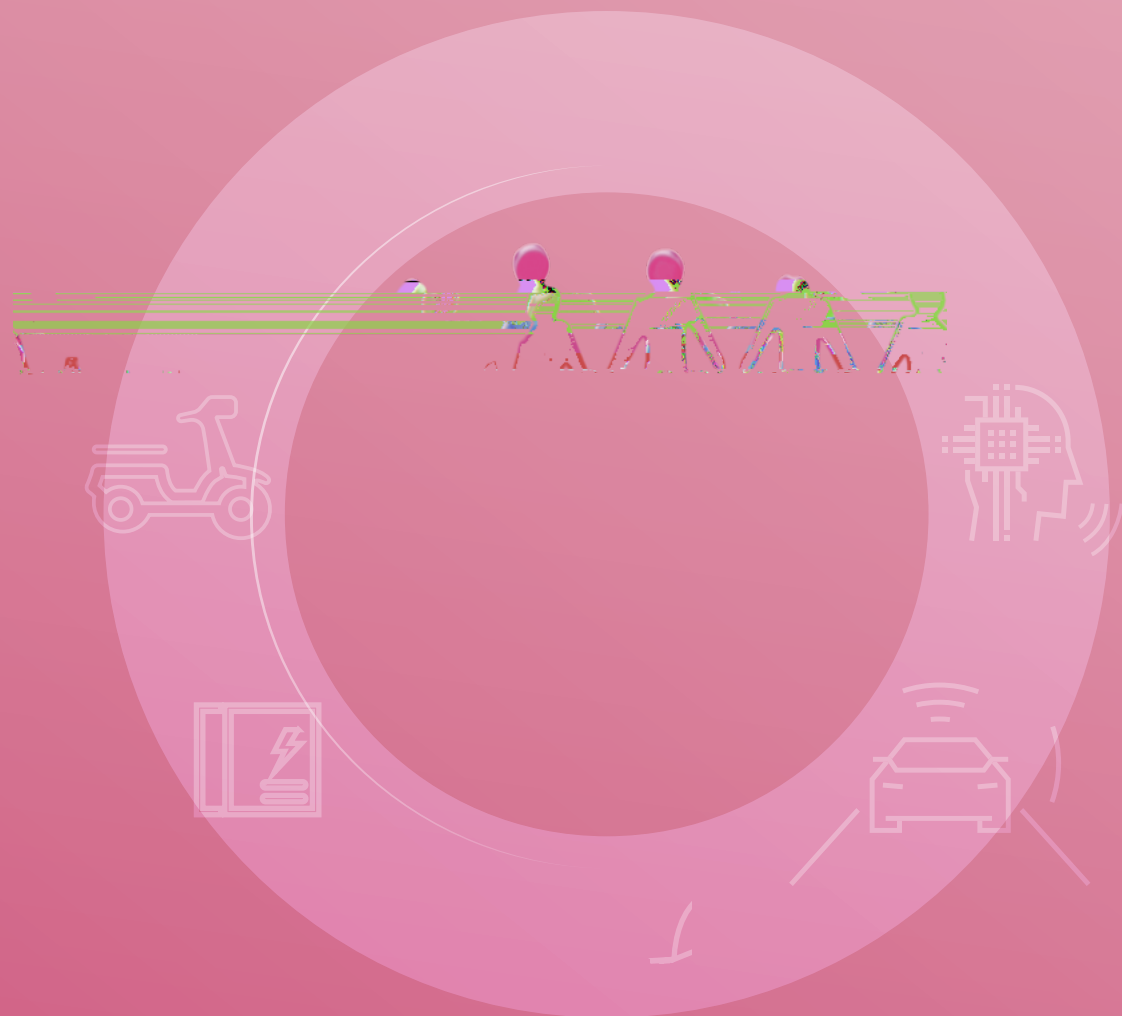
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Name of company or subsidiary	Name of main pollutants and characteristic pollutants	Emission method	Pollutant emission standards implemented	Total approved emission (tonnes/year)	Excessive emission
	ᐃ ᐅ ᐃ Lead and its compounds	ᐃ ᐅ ᐃ Organised emissions after treatment			
	ᐃ ᐅ ᐃ Nitrogen oxide				
	ᐃ ᐅ ᐃ Chemical oxygen demand				
	Ammoniacal Nitrogen				
	Total lead				
	ᐃ ᐅ ᐃ Lead and its compounds	ᐃ ᐅ ᐃ Organised emissions after treatment			
	ᐃ ᐅ ᐃ Nitrogen oxide				
	Total lead				
	ᐃ ᐅ ᐃ Chemical oxygen demand				
	Ammoniacal Nitrogen				
	ᐃ ᐅ ᐃ Lead and its compounds	ᐃ ᐅ ᐃ Organised emissions after treatment			
	Total lead				
	ᐃ ᐅ ᐃ Chemical oxygen demand				
	Ammonia				
	ᐃ ᐅ ᐃ Sulfur dioxide				
	ᐃ ᐅ ᐃ Nitrogen oxides				
	ᐃ ᐅ ᐃ Total lead				
	ᐃ ᐅ ᐃ Total ammonia				
	ᐃ ᐅ ᐃ Total sulphur				
	ᐃ ᐅ ᐃ Total lead				
	ᐃ ᐅ ᐃ Chemical oxygen demand	ᐃ ᐅ ᐃ Organised emissions after treatment			
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企 业 名 称 Name of company or subsidiary	主 要 污 染 物 Name of main pollutants and characteristic pollutants	排 放 方 式 Emission method	实 施 标 准 Pollutant emission standards implemented	年 度 允 许 排 放 量 Total approved emission (tonnes/year)	备 注 Remarks
浙 江 天 能 电 力 有 限 公 司 Zhejiang Tianneng Power Supply Material Co.,Ltd.	Particulates	直接排放 Direct discharge	10		
	铅及其化合物 Lead and its compounds		0.4/DA006 0.6		
	砷及其化合物 Arsenic and its compounds		0.4		
	锡及其化合物 Tin and its compounds		1		
	锑及其化合物 Antimony and its compounds		1		
	氮氧化物 Nitrogen oxide		100		
	二氧化硫 Sulfur dioxide		100		
	化学需氧量 Chemical oxygen demand	间接排放 Post-treatment discharge	500		
	氨氮 Ammoniacal nitrogen		25		
	总铅 Total lead		0.2		
	总砷 Total arsenic		0.1		
	总镉 Total cadmium		0.01		
	总锑 Total antimony		0.3		
天 能 集 团 (濮 阳) 可 再 生 资 源 有 限 公 司 Tianneng Group (Puyang) Renewable Resources Co.,Ltd.	铅及其化合物 Lead and its compounds	直接排放 Direct discharge	2		
	砷及其化合物 Arsenic and its compounds		0.4		
	锡及其化合物 Tin and its compounds		1		
	锑及其化合物 Antimony and its compounds		1		
	Particulates		10		
	二氧化硫 Sulfur dioxide		100		
	氮氧化物 Nitrogen oxides		100		
	化学需氧量 Chemical oxygen demand	间接排放 Post-treatment discharge	无外排 No external discharge		
	氨氮 Ammoniacal nitrogen				
	总铅 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



- η ' Z Product Responsibility and Customer Protection
 - η Product Responsibility
 - Customer Service
- η Technological Innovation and Industry Development
- η Employee Care and Career Development
 - ' Employment and Labor
 - Talent Reserve
 - ' η Employee Development
 - ' Employee Training
 - ' Employee Satisfaction
- η Occupational Safety
- f Supply Chain Management
- Investors' Equity
- η Community Engagement and Public Welfare
- § Employment and Taxes
- Rural Revitalization
- η Proposals and Suggestions





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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 Mission: Dedicated service, pursuit of excellence.			
Service Policy: Satisfy customers, gain customer recognition.			
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 Coabora2.333-win servic; standardanition.			
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Technological Innovation and Industry Development

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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.

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.

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 研究 · 创新案例 Examples of Research Innovations in 2024:

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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.

● 锂离子电池

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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.

● 固态电池

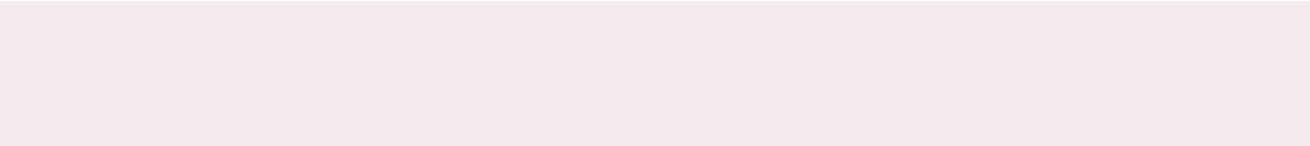
Ā 300Wh/kg 400Wh/kg
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The Group has independently developed 300Wh/kg and 400Wh/kg high-safety solid-state battery cells, which have passed safety performance tests such as puncture and overcharge. The battery cell is tested to have better life cycle,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



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

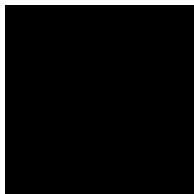


In terms of talent selection, Tianneng implements a strategy of "open external recruitment and balanced internal development." On the one hand, the Company continuously introduces industry-leading talents, R&D experts, and high-end professionals in various functional fields to optimize organizational 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.

p Community Engagement and Public Welfare

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.

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Tianneng Puyang Company Achieves Significant 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.



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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.

Rural Revitalization

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The sustainable development goals covered in this chapter:





Proposals and Suggestions

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.

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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.

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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.

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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.

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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.

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06



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Topic Ⅰ Smart Manufacturing and Digital Transformation

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Topic II Creating a Battery Cycle Ecological Industrial Chain



Thematic Section



Topic 4: Smart Manufacturing and Digital Transformation

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

At the Ma'anshan base, we successfully transformed the traditional manual order allocation process into an intelligent order allocation system. The order allocation rate reached 99%, and accuracy improved by 80%. The "paper-based" order allocation process, which used to take two days to complete, now takes only 10 minutes, greatly improving production efficiency. The intelligent system can allocate nearly 800,000 batteries daily, driving quality improvement and efficiency across the entire production chain. In terms of intelligent production scheduling, the system can instantly update the monthly, weekly, and daily production plans, ensuring more precise and efficient production arrangements. With the successful application of the assembly section at the Ma'anshan base, the Group plans to extend this intelligent manufacturing system to other production bases, further enhancing overall operational efficiency.

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In addition to the intelligent application in the core assembly section, the Group is actively expanding into new areas such as plate manufacturing, charging, and material control, based on continuous improvement, to accelerate the construction of smart factories and digital workshops. The Company adheres to the "Three Transformations, One Change" intelligent manufacturing strategy, committed to enhancing overall production efficiency and quality through high automation, deep digitization, localized intelligence, and key business transformations. By mining vast amounts of data and accurately analyzing each production link, the Group has established the largest new energy power battery production base in China and has become the first company in the industry to implement intelligent factory system applications across the entire industrial chain.

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Smart Factory: A Leading Practice in the ESG Field

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This year, the Group's Puyang company was successfully selected as one of the 5G fully connected factories in Henan Province, marking a new milestone in the company's smart manufacturing and ESG practices. This is Tianneng's first 5G factory, focused on the production of new power batteries, showcasing the company's innovative strength in the fields of intelligence and sustainable development.

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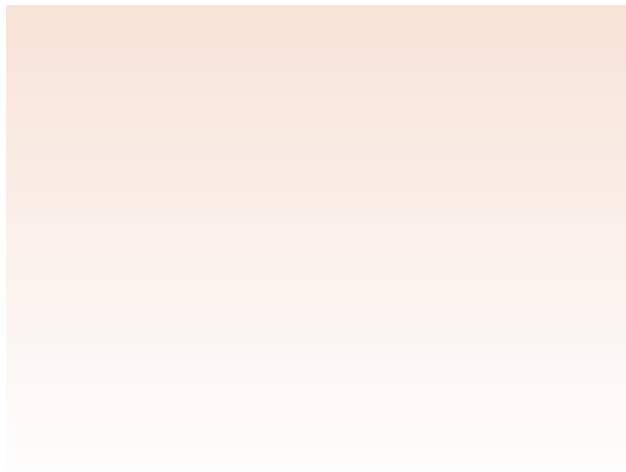
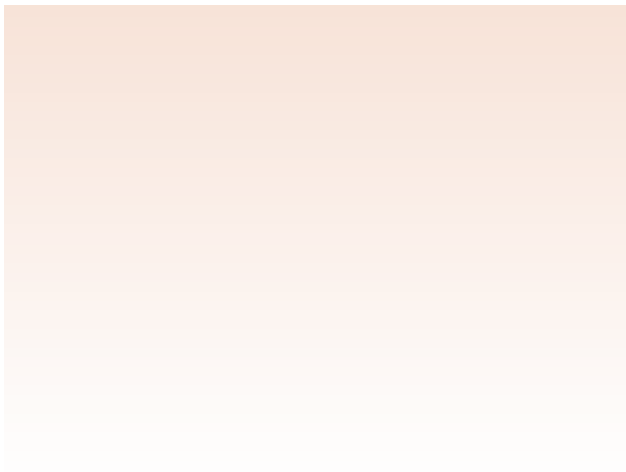
The Puyang factory's 5G network coverage exceeds 98%. Through the deep application of "5G + Internet of Things" and AI models, the factory has realized an innovative model of remote monitoring personnel interacting with the operating environment and real-time linkage with factory data. This system covers 98 production lines and 64 inspection routes, performing over 5,800 inspection tasks, greatly improving production and management efficiency.

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With intelligence and digitalization at its core, the Puyang factory deeply integrates 5G technology to drive quality improvement and efficiency in the industry. As a benchmark project in the sector, it fully demonstrates Tianneng's outstanding performance in smart manufacturing, green development, and social responsibility, providing crucial support for achieving ESG goals.

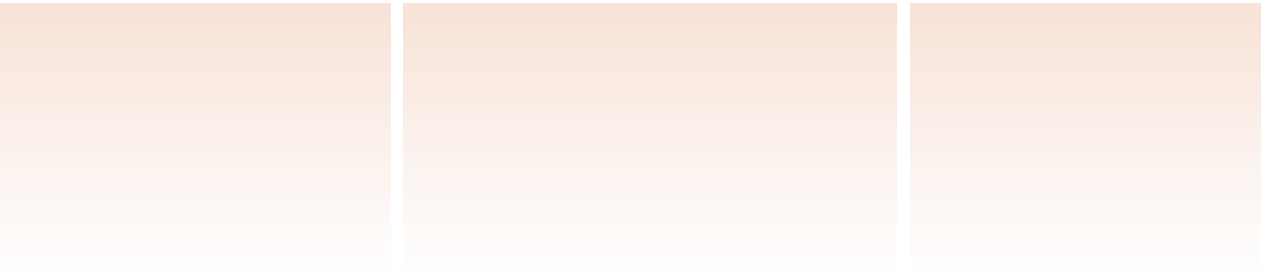
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As an emerging sector within the new energy industry, the power battery recycling system and processing technologies are continuously developing and improving, injecting strong momentum into the construction of a green, low-carbon circular economy. 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 development, the Group has established a sustainable development benchmark for manufacturing—recycling—reuse.



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Total direct and/or indirect energy consumption				

Key Categories, Dimensions, General Disclosure and Key Performance Indicators		GRI GRI Standard		z Disclosure Content
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