TIANNENG

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Tianneng Group

Website

Electronic brochure

TIANNENG

www.tiannengglobal.com

GREEN ENERGY SYSTEM SOLUTION PROVIDER

TENNENG GROUP, SINCE 1986



TIANNENG

GREEN ENERGY SYSTEM SOLUTION PROVIDER

About Us

Tianneng is a Global Leading New Energy Company committed to providing environmentally-friendly battery solutions for various industries worldwide since 1986.

Tianneng now has nearly 30,000 employees and more than 160 subsidiaries around the world. There are 18 production bases in 7 provinces in China and 2 oversea manufacturing center in Vietnam. Tianneng set up 7 R&D centers to constantly develop technology and keep innovation in the area of lead acid batteries, lithium batteries, hydrogen Fuel Cells, and Sodium-ion batteries.



Honor:

- Global Top 500 New Energy Enterprises — Rank 2
- China Top 500 Private Enterprises — Rank 27
- China Top 500 Enterprises — Rank 127
- China Top 100 Light Industry Enterprises — Rank 4

Main Business areas:

- Battery and system Solutions (Motive, SLI, Energy Storage)
- Battery Recycling Solutions (Lead Acid battery recycling, Lithium-ion battery recycling)

$7.5 billion
2025 Annual Sales

A+H Listed
688819.SH/00819.HK

8000+
Patents

No.2
Global Top 500 New Energy Enterprises

Milestone

MILESTONE OF TIANNENG GROUP

1986
Since 1986

1998
VRLA Battery Developed for E-bike

2004
Lithium Battery Developed

2007
Tianneng Group Listed on HONGKONG

2009
TN Circular Economy Base Estabilised

2010
National Honors for 18650 Series

2014
National Honors for Pb-C Battery

2018
Photovoltaic Energy Storage Project for the Gambian Presidential Palace

2021
Tianneng Battery Listed on SSE

2022
Launched the world' s first whole industry chain intelligent SLA factory

2023
Tianneng South Tai Lake Lithium Battery Production Base puts into operation

2024
Tianneng Vietnam Factory (phase 1) officially launched

2025
Tianneng Vietnam High-Performance Battery Plant Commissioning Ceremony & Apac Partner Conference

Global Footprint

18

China Production Base

Tianneng has established 18 production bases in eight provinces including Zhejiang, Anhui, Jiangsu, Henan, Guizhou, Shandong, Jiangxi and Gansu.

11

Overseas Offices (Established)

Vietnam, Thailand, Indonesia, India, Germany, Netherlands, Poland, Türkiye, Mexico, Chile, Nigeria

2

Overseas Production Base

Vietnam

7

Overseas Company

Vietnam, Indonesia, Philippines, Nigeria, Poland, Kenya, Singapore

1

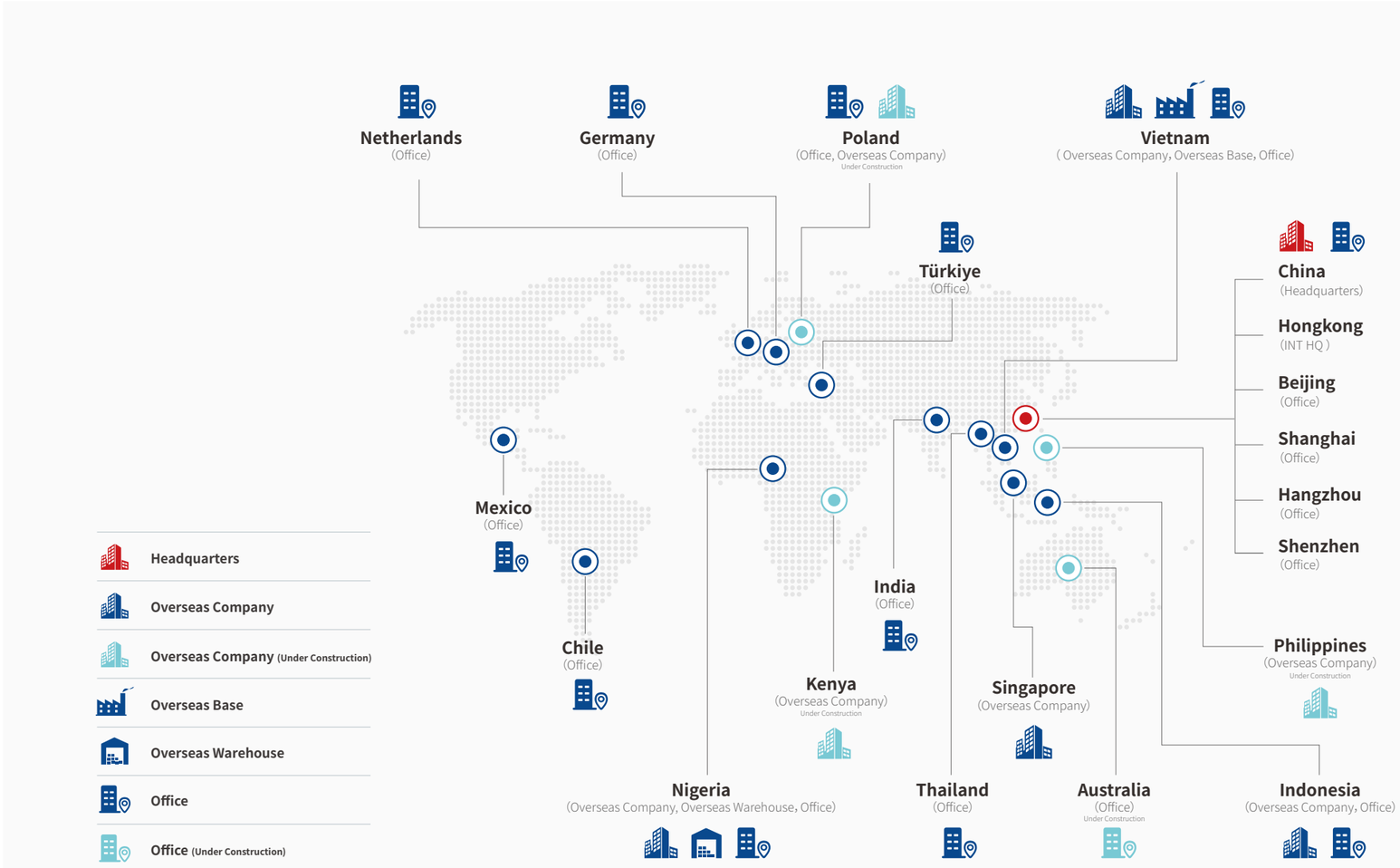
Overseas Warehouse

Nigeria

4

China Office

Beijing, Shanghai, Hangzhou, Shenzhen



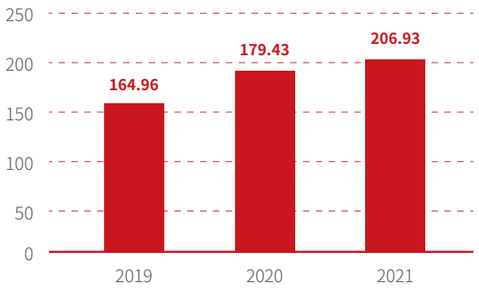
R&D Strength

R%D Investment & Outcome

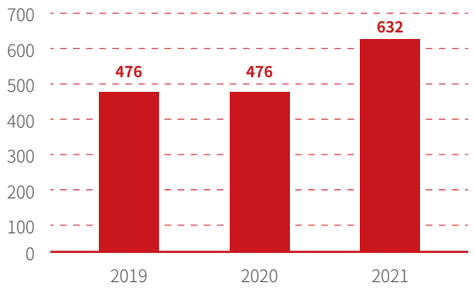
Tianneng has always put technological innovation in an important position to promote enterprise development. Relying on the three-level R&D mechanism of "Headquarters Research Institute + Technology Center + Production Base Technology Department" and continuously increasing R&D investment, Tianneng has accumulated a number of core patents for lead storage batteries, lithium-ion batteries, and new battery technologies mainly for fuel cells.

R&D Investment (million $)

Proportion of sales: 2019: **2.67%** 2020: **3.54%** 2021: **3.69%**



No. of New Patents





8000+ Patents | **200+** Standards | **1300+** Professors

R&D Strategies

Tianneng has formed a complete and independent core technology system in improving the specific energy of batteries, improving the batteries' cycle life, improving the performance of batteries in low temperatures and other harsh environments, and improving the production efficiency, etc., and successfully realizing industrialization.

New Material | **New Structure** | **New Technology** | **New Area**

Cooperation with World Top Universities and Associates.

Tianneng has cooperated with many famous universities and research institutes, such as the University of Berlin in Germany, the University of Wollongong and ALABC.

Intelligent Manufacturing

Tianneng has the first domestic motive battery automatic continuous casting, rolling, continuous punching, and continuous coating production demonstration line, the domestic first small-density power battery intelligent automatic assembly demonstration production line and other digital production lines and a complete digital industry. The supply chain has the leading advantages of high equipment utilization, relatively stable production capacity, high product quality, flexible operation, and great product adaptability.





Smart Factory

Applied artificial intelligence, big data, IoT, image recognition, machine learning, and other cutting-edge technologies to build an efficient smart factory.
*Owns the world's first whole industrychain intelligent factory forlead-acid battery
*Automatic and intelligent lithium-ion battery production line

Lifecycle Management

Executed the whole life cycle of the battery from demand, planning, design, production, sales, operation, usage, maintenance, recycling, and disposal.

Quality Assurance

Real-time analysis of factory production data, Full process quality control, and information monitoring

High Production Efficiency

Through rational planning and scheduling, improving the controllability of the production process and reducing the manual intervention in the production process, building a green production with high efficiency and energy saving



Intelligent Manufacturing

Strict Quality Control

100% Quality Assurance

CB RoHS TLC CE SON

Certificate

Tianneng deals with every product prudentially by focusing on every detail and ensuring the quality.

Tianneng catches up with the development trend of industrialization and informatization in 5G era, speeds up the development of digital economy, realizes the data connection of the whole process, and builds a smart platform.



Digitization

Digital Management Platform

Transportation

Battery



LEAD ACID BATTERY
TNE Series



LEAD ACID BATTERY
TNEP Series



LEAD ACID BATTERY
TNEH Series



LEAD ACID BATTERY
PzS Series



LEAD ACID BATTERY
PzB Series



LITHIUM-ION BATTERY
Cylindrical Cell



LITHIUM-ION BATTERY
Prismatic Cell



LITHIUM-ION BATTERY
Pouch Cell



LITHIUM-ION BATTERY
TMLiN Series

3 Core Materials for Better Performance

Graphene | Low Temperature Resistance

Carbon Fiber | Perfect Discharge Performance

Rare Earth Alloy | Long Cycle Life

Advanced Services

① Provide Battery Components

② Provide Vehicle Components

③ Provide SKD Batteries

④ Provide Technical guidance

Transportation



Mobility&Leisure

Motive Battery

Long Mileage & Fast-Charge Capability

E-scooter | Golf Cart | Marine



Automobile

Start Battery & Start-stop Battery

Excellent Instant Discharge Current & Long Cycle Life

Car | Truck | Bus



Material Handling & Logistics

Traction Battery

Tubular Polar Plate +flooded type desigh - Long cycle life and durability

Forklift | Stacker

Energy Storage

Battery



HESS
Wall-mounted HESS products



HESS
Stackable HESS Products



HESS
Rack Mounted HESS Products



HESS
Telecom Energy Storage
HESS Products



CESS
Outdoor Battery Energy
Storage Cabinet



CESS
Energy Storage
System

Back-up Power

2.4G/5G

Telecom 5G

UPS

IDC

EPS

Security System

Energy Storage



Household

Household energy storage system

Green house with economic energy

- Household
- Solar Energy
- Other renewable energy



Business & Industry

Office buildings and factories

Stability, economy, and flexibility

- UPS/EPS
- Telecommunication
- Electric Power



Grid

Large energy storage power station

Large energy storage power station

- Power grid
- Power station
- Power plant

Battery recycling

Lead-acid Battery Recycling

Tianneng contributes to developing a sustainable battery value chain to help achieve the global carbon neutrality target.Working at creating a close loop of battery production-application-battery recycling-Clean Regeneration-battery production.

Since 2009

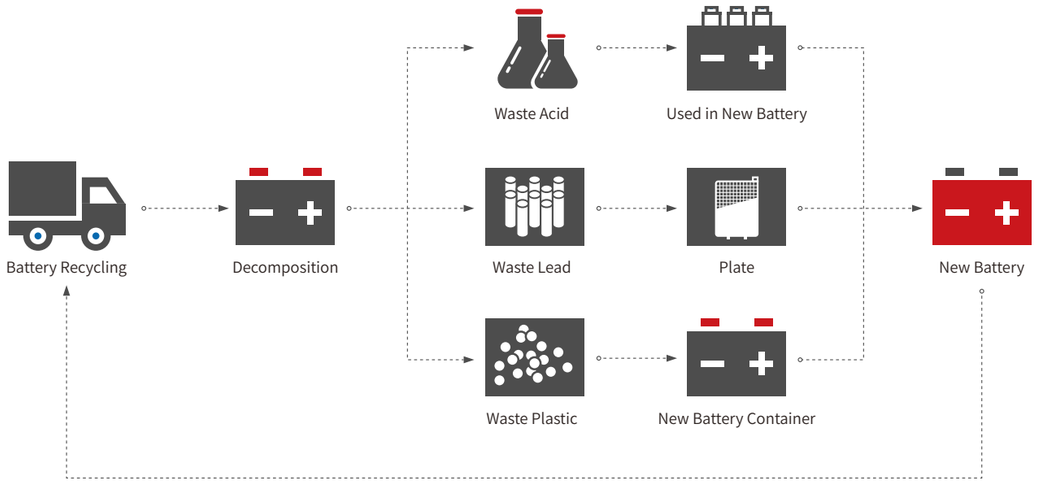
Since 2009, Tianneng have been committed to the construction and improvement of the waste lead-acid battery recycling system.

3 large-scale recycling bases

Owns three domestic recycling bases and has become a national pilot base for circular economy standardization.

Large recycling scale

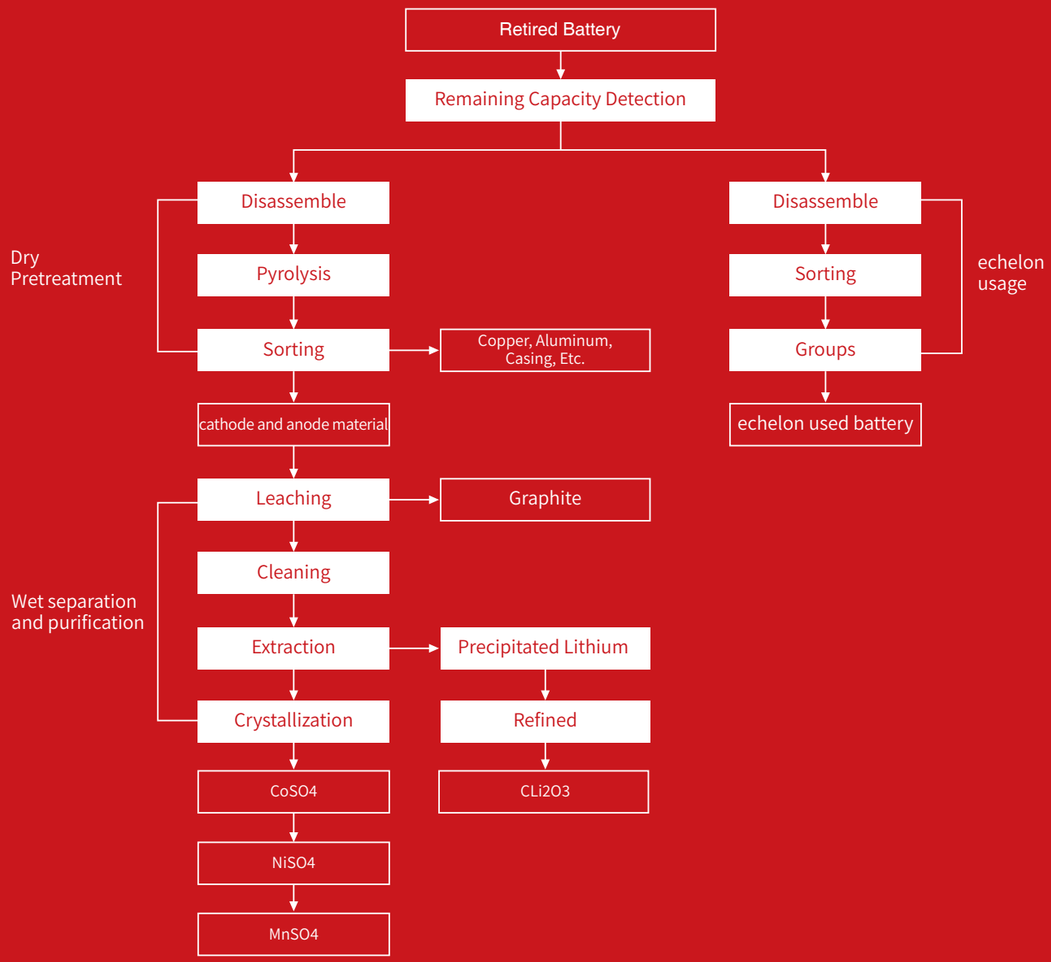
At present, the total annual recycling of lead-acid batteries can reach 900,000 tons, producing more than 600,000 tons of recycled lead, saving 20 million tons of lead ore per year.



Lithium-ion battery Recycling

EstimateWaste Lithium battery disposal capacity: ≈126,000Tons
23,000Tons (in operation) + 103,000 Tons (on constructions)

Own 27+ patents, 40+Industry/Nation Standard formulations
Participated in the formulation and revision of nation/industry standards related to lithium battery recycling and materials



Corporate Culture

Social Responsibilities

We have earned the trust of the market, and we will carry more social responsibility to repay the whole society.

Sustainable development

The commitment to Leveraging the power of Tianneng to promote green development

The commitment to sustainable development is the core tenet of Tianneng Group's development. Since the establishment of the company, Tianneng has been committed to promoting harmony between people and nature with a higher quality level of development and meeting the needs of people for a better life with cleaner and more efficient products. We focus on developing in a way that benefits people, the environment, and society in a sustainable manner.



Our actions, sustainable practices

1. Supply Chain Management

Tianneng Group hand in hand work with global high-quality suppliers to jointly optimize supply chain management of the supply chain ecosystem. Strategic alliances in the supply chain were established to enhance the competitiveness of the whole value chain system.

2. Labor & Human Rights

Tianneng Group Strictly abides the global law and regulations such as "the Labor Law" in the recruitment and employment of global staff. The company actively strives to create a diversified and impartial working environment for employees and establishes management systems such as "Regulations on Human Resource Management" and "Control of Tianneng Group and Recruitment Management Measures of Tianneng " to clarify the rights of employees and ensure that all employees are not discriminated against on the basis of religion, gender, disability, etc.

3. Intellectual Property Protection

Tianneng Group takes r&d development as the priority. Established an innovation team composed of international top experts from the United States, Japan, South Korea, etc., The research industry involves new energy batteries, new energy materials, intelligent manufacturing, and green cycle, etc. Tianneng also sets up the department of Project and Intellectual Property to deal with the application of the related project .

4. Safeguard the Green Homeland

Tianneng Group has comprehensively explored a new model of green growth. Starting from green battery products, green workshops, green factories, green parks, green standards, green supply chains, etc., with the help of big data and IoT technology. It puts "green intelligent manufacturing" into the whole process of production and operation, leading the industry to develop in a green, high-end, and intelligent direction.

CONTACT US NOW!

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Disclaimer

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