



FoxESS

PRESENTATION



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FoxESS



FoxESS

ABOUT US



About Us

Tsingshan Group & FoxESS



Tsingshan Group is a Fortune Global 500 company and is the largest producer of stainless steel in the world. It has more than 56,000 employees and annual sales revenues in 2019 of 37.6 billion USD.

Tsingshan Group controls the complete production chain including nickel-chromium alloy smelting, battery material production, battery cell manufacturing, battery pack assembly and supply of energy storage systems to global markets.

The move into the renewable energy industry is a natural progression for Tsingshan Group and represents a significant economic growth point beyond the production of stainless steel.

About Us

Tsingshan Group & FoxESS



World's largest producer of stainless steel & world's largest nickel mine operator.



Ranked 361st in the Fortune Global 500 list of the world's largest companies.



Sales revenues in 2019 in excess of 37.6 billion USD.



FoxESS



A large iceberg floating in the ocean. The tip of the iceberg is visible above the water line, while the vast, jagged, and complex structure of the iceberg is submerged below the surface. The water is a deep blue, and the sky above is a lighter blue with some wispy clouds.

THE ENERGY STORAGE HIDDEN

GIANT

FIND OUT MORE - WWW.FOX-ESS.COM



FoxESS

NICKEL MINES

STAINLESS STEEL
PRODUCTION

NICKEL
REFINING

BATTERY
MATERIAL
PRODUCTION

BATTERY CELL
MANUFACTURING

BATTERY PACK
ASSEMBLY

ENERGY STORAGE
SYSTEMS

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About Us

Tsingshan Group & FoxESS



Tsingshan Group controls the complete production chain including nickel-chromium alloy smelting, battery material production, battery cell manufacturing, battery pack assembly and supply of energy storage systems to global markets.

1

Joint venture (QMB) established with GMA, Brunp Recycling and various other enterprises in Indonesia.

2

Established REPT battery manufacturing facility following a 5 billion RMB investment. Total annual production capacity of 18GWh in 2020.

3

4

FoxESS was founded in September 2019 and will design and manufacture advanced energy storage products for global markets.

5



Co-operation between Tsingshan Group & FoxESS begins.



May 2019



FoxESS begin product development.

August 2019

September 2019



FoxESS expands operations with 100 million RMB of registered capital.

FoxESS secure 500 million RMB banking facility.



October 2019

November 2019



Advanced development & testing of solar inverter and storage products at R&D facility.

Product range launch into key global markets.



March/April 2020



The R&D Facility

R&D

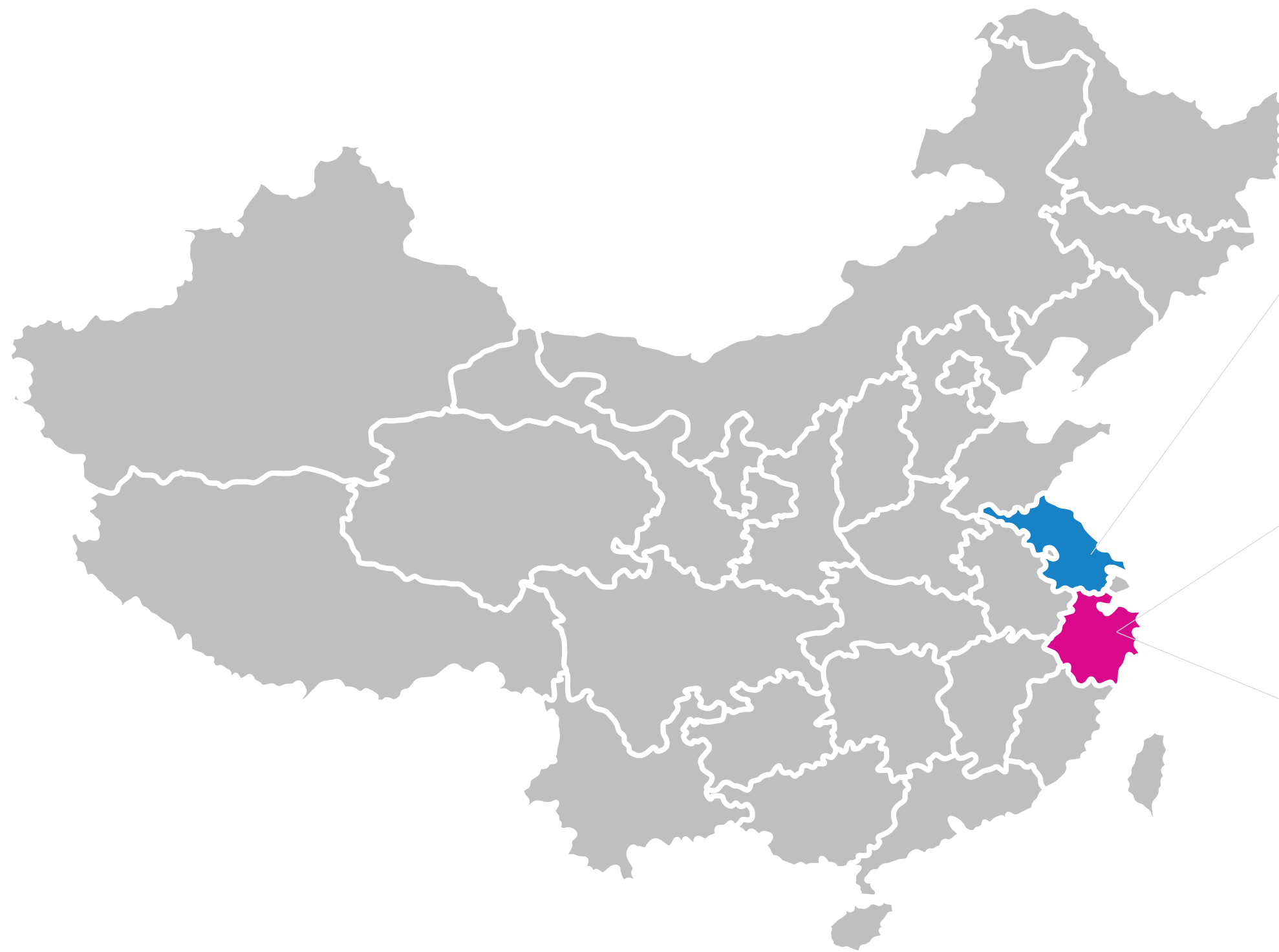
The FoxESS Development Team



The FoxESS R&D department is 100 strong and accounts for 30% of the total number of employees. Over 80% of our R&D team have graduated from leading universities in China. The R&D teams consists of many engineers who have gained experience working at leading companies such as SANTAK Group, Emerson Network Energy, EVTECH, SMA, SolaX Power, Samilpower and many others.

Our team consists of some of the foremost experts in the fields of solar inverter and energy storage technology and together are working on a suite of the most advanced and feature rich products available.

FoxESS China



FoxESS Wuxi Manufacturing Base
7,800 square meters
Production capacity 1GW
No.11, LiJiang Road, Xinwu District,
Wuxi City



FoxESS 10GGW Inverter Factory
100,000 square meters
BinHai Six Road Longwan District,
Wenzhou City



Tsingshan Group
Headquarters Building
Room 1703, Building B, No.2666
Longxiang Road, Longwan District,
Wenzhou City

Global Offices

FoxESS Around The World



UK Office



Netherlands Office



Australia Office

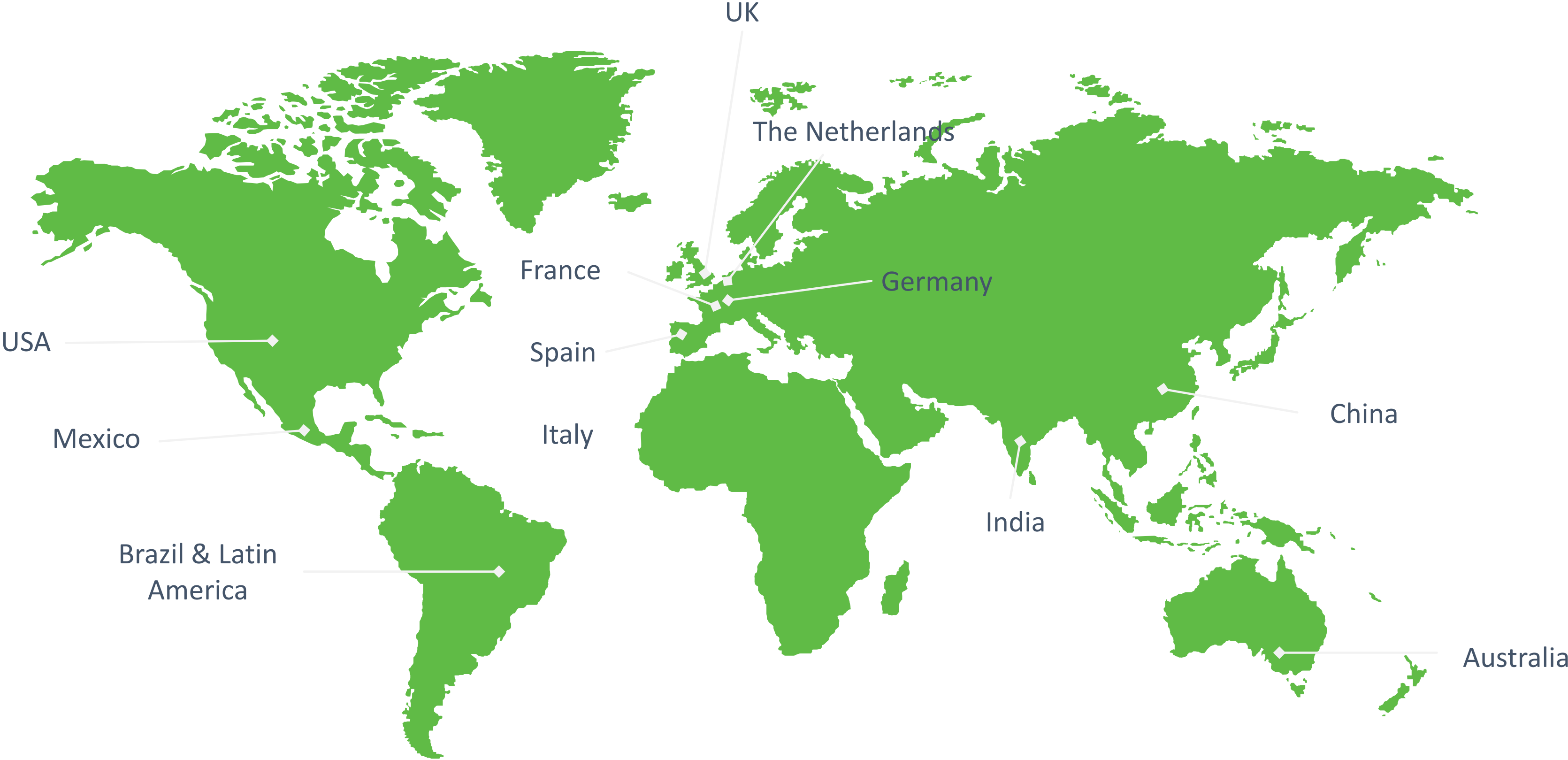
UK Office: **London**
Markets Covered: **UK & Ireland**

Netherlands Office: **Amsterdam**
Markets Covered: **Netherlands, Germany, Italy, Poland and rest of EU.**

Australia Office: **Melbourne**
Markets Covered: **Oceania**

Global Markets

FoxESS Around The World

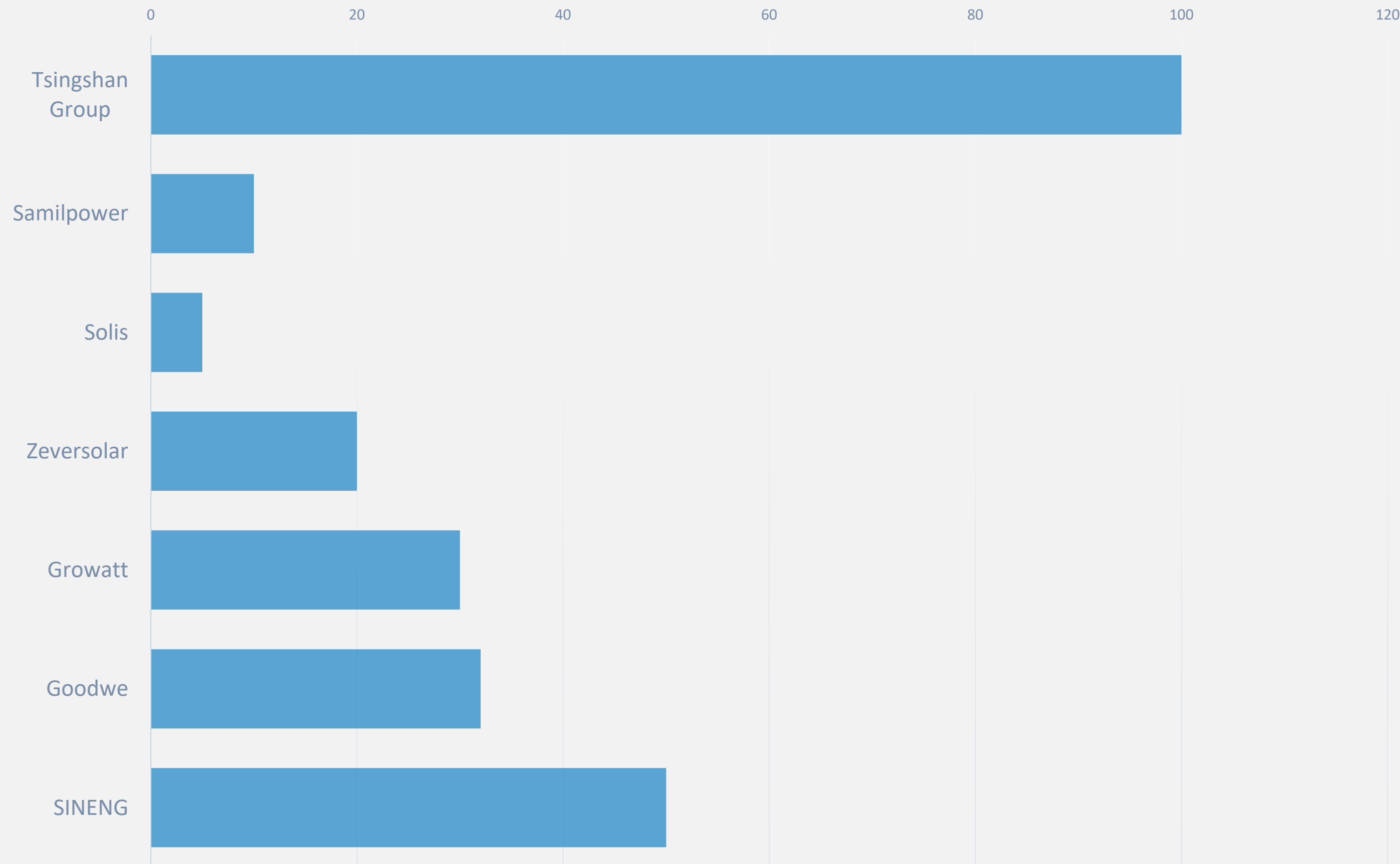




COMPETITOR ANALYSIS

FOXESS

Competitor Analysis



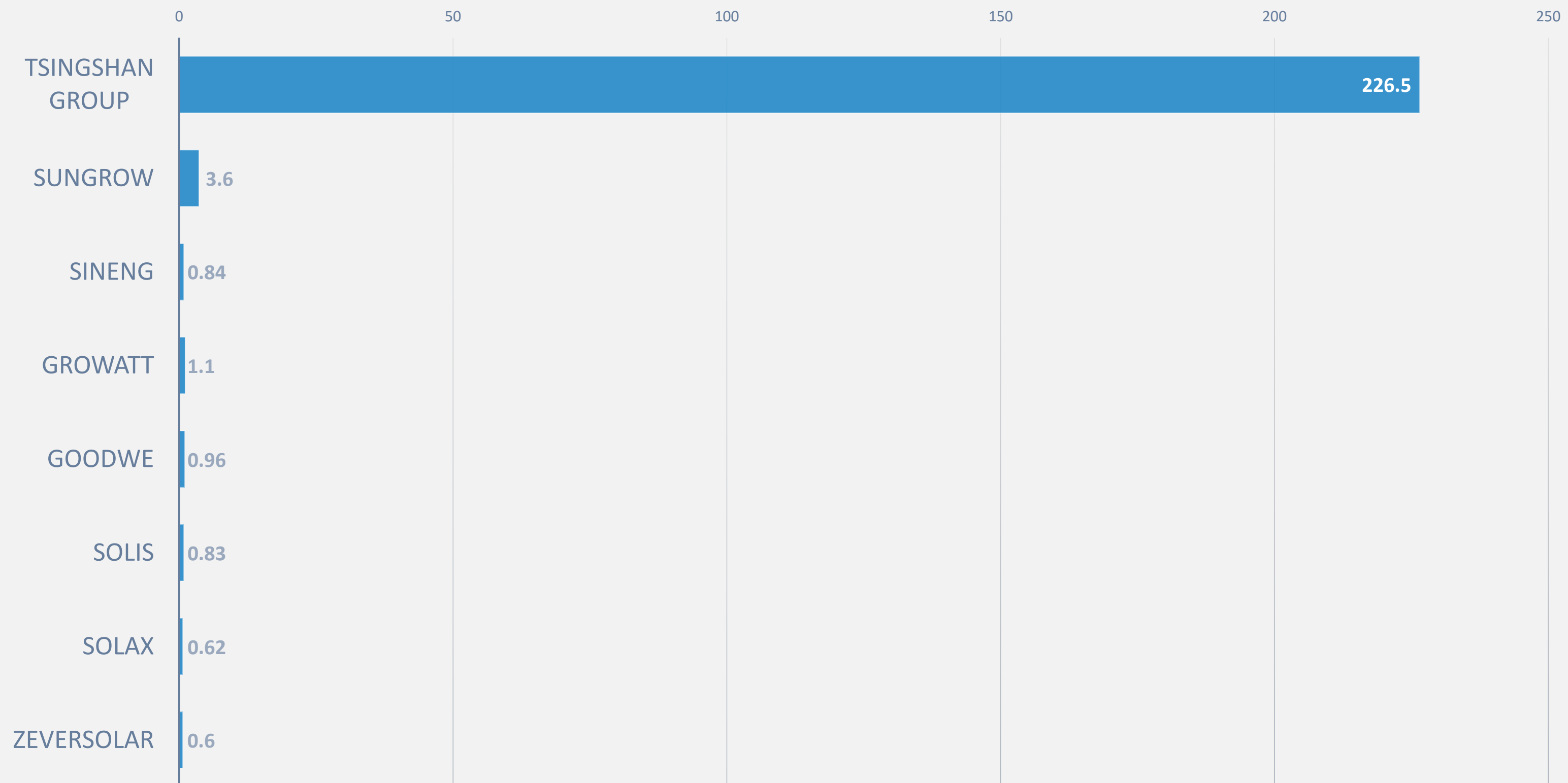
FoxESS

Registered Capital

RMB (Million)

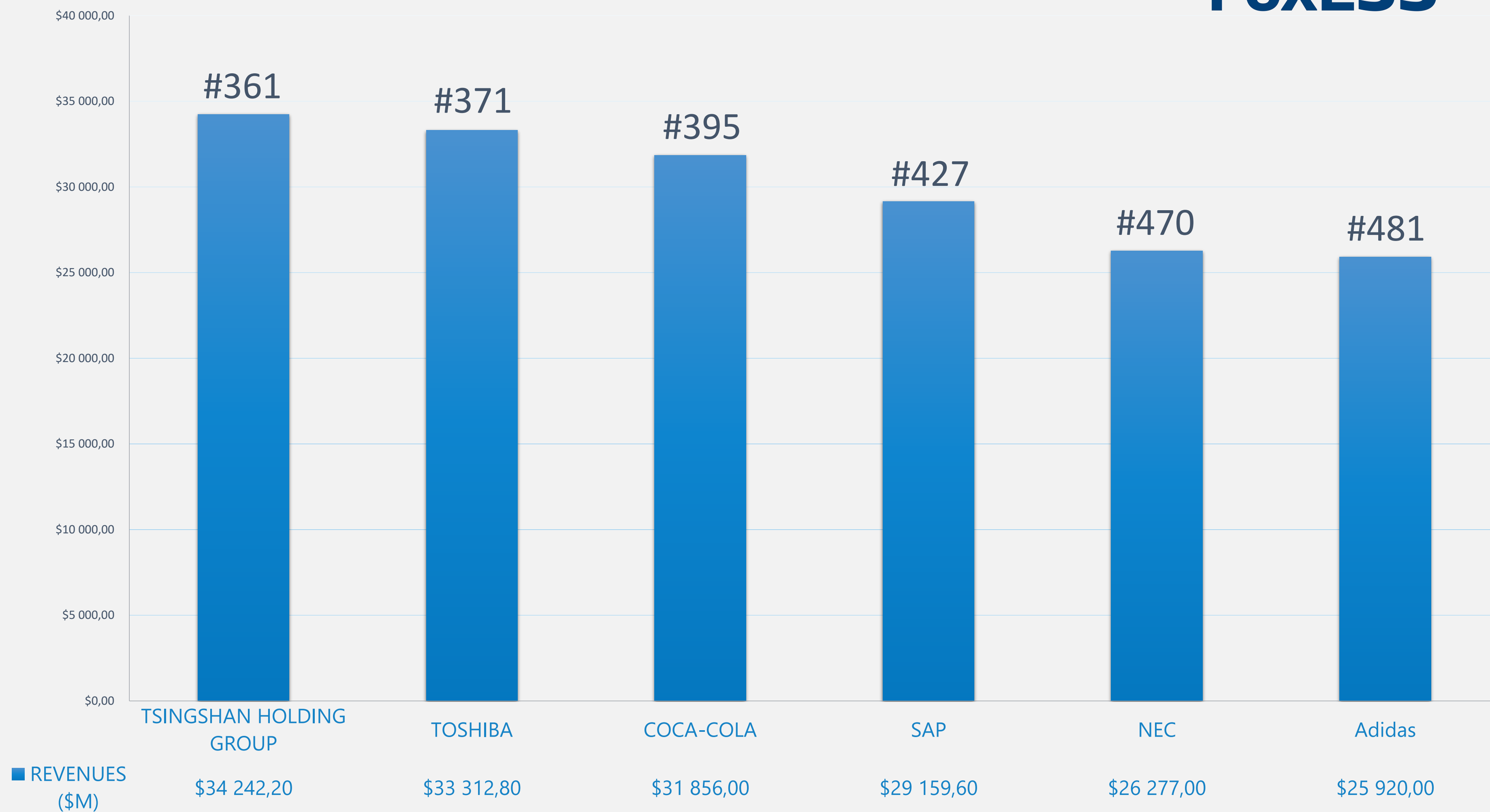
- Tsingshan Group - 100
- Samil Power – 10
- Solis – 5
- Zeversolar – 20
- Growatt – 30
- Goodwe – 32
- Sineng - 50

Operating Revenue in 2018 (RMB: billion)



Fortune500

Tsingshan Group Is Ranked 361st In the Fortune500 List of Global Companies



PRODUCTS



FoxESS

Grid-Tied Inverters



S / 0.7-3.3kW



E / 3-6kW



F / 3-6kW



T / 4-25kW

AC Charger / Hybrid (Prime)



AC Single-Phase 3-5kW



AC 3-Phase 5-10kW



Hybrid Single-Phase 3-5kW



Hybrid 3-Phase 5-10kW

Batteries

Low Voltage



L2600



L5200

High Voltage



H2300



H2600

ALL-IN-ONE ENERGY STORAGE SYSTEM ELITE & ULTRA RANGE



Single-phase

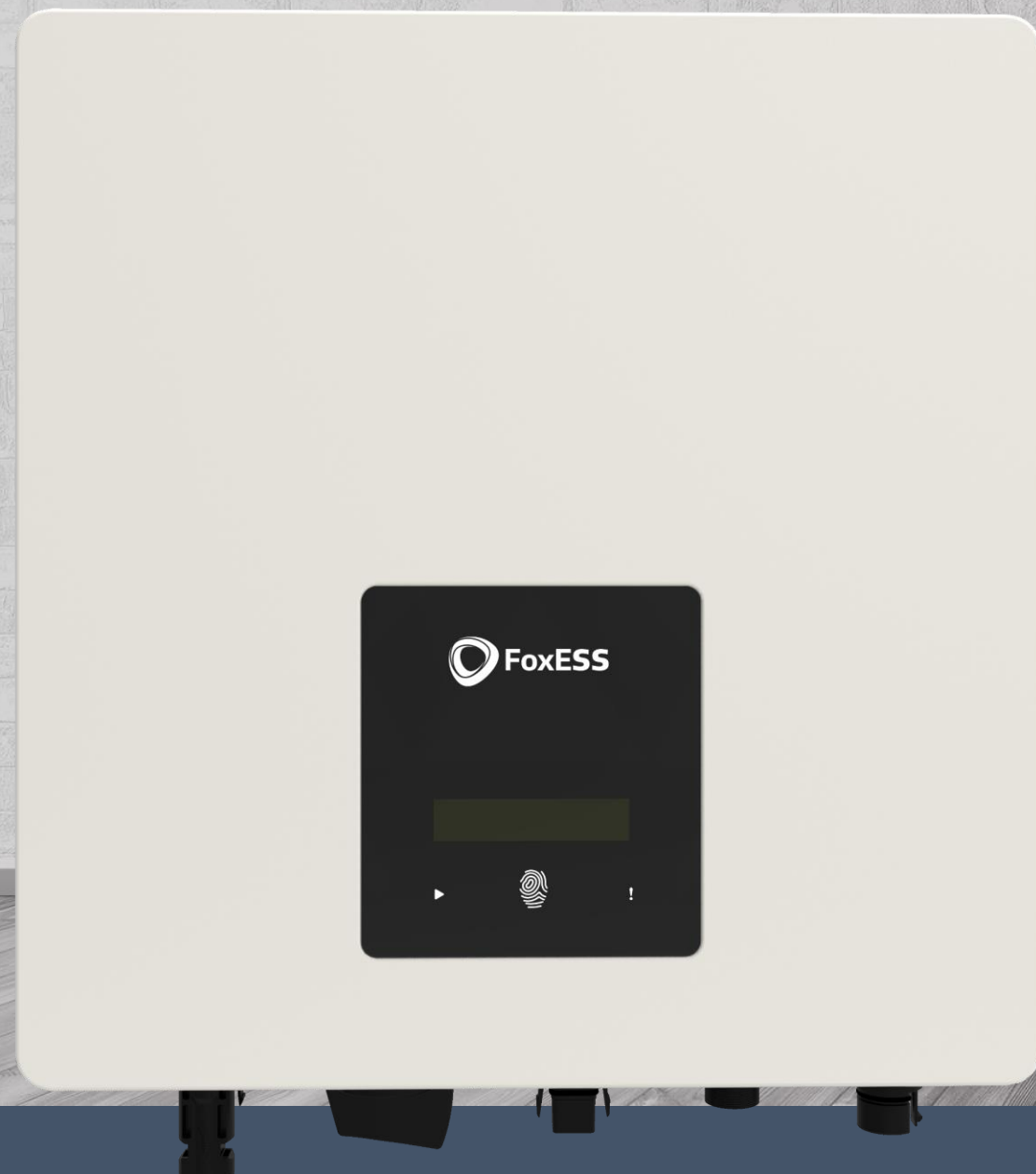


Three-phase

S SERIES



Single Phase, Single MPPT Inverter



S700/1000/1500/2000/2500/3000/3300*



High
Performance



IP65
Rated



Battery
Ready



Remote
Monitoring



Easy
Upgrade

*selected markets only

E SERIES



Single Phase, Dual MPPT Inverter

E3000/3600/4600/5000/5300*/6000



High
Performance



IP65
Rated



Battery
Ready



Remote
Monitoring



Easy
Upgrade

*selected markets only

F SERIES

Single Phase, Dual MPPT Inverter

F3000/3600/4600/5000/5300*/6000



High
Performance



IP65
Rated



Battery
Ready



Remote
Monitoring



Easy
Upgrade

*selected markets only



T SERIES



Three-Phase Inverter 4-25kW

T1040 / T1050 / T1060 / T1080 / T1010 / T12 / T15 / T17 / T20 / T25



High
Performance



IP65
Rated



Battery
Ready



Remote
Monitoring



Easy
Upgrade



AC CHARGER



Flexible Battery Storage

C3000/3600/4600/5000



High
Voltage



IP65
Rated



Easy
Installation



Remote
Monitoring



Scalable
Storage

ALL-IN-ONE

Advanced Battery Storage

ELITE & ULTRA RANGE

AC-Coupled & Hybrid Variants / Single & Three-Phase



High
Voltage



IP65
Rated



Easy
Installation



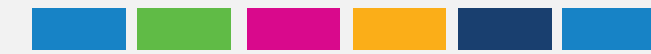
Remote
Monitoring



Scalable
Storage



LV BATTERY



L2600/L5200



High
Performance



IP65
Rated



Easy
Installation



Remote
Monitoring



Scalable
Storage



HV BATTERY



H2300/H2600



High
Performance



Easy
Installation



Remote
Monitoring



Scalable
Storage

REMOTE MONITORING



All Fox ESS products are compatible with the powerful and intuitive Fox ESS monitoring platform.

Monitor system performance anywhere in the world with our user-friendly app or web portal. Our app is compatible with both iOS and Android devices. The app can be used to view key system data and performance, both live and historic, and also to adjust battery settings so that you can maximise savings based on time of use.



QUALITY

NIPPON
CHEM-CON

CAPACITORS

NIPPON

DRIVER IC

Infineon

Infineon

THIN-FILM CAPACITOR

DAIICHI ELECTRONIC

F

CURRENT SENSOR

LEM

LEM

IGBT

ON SEMICONDUCTOR

ON

DRIVEN OPTOCOUPLER

AVAGO

AVAGO
TECHNOLOGIES

CPU

ST / TEXAS INSTRUMENTS / ATMEL

ST Atmel TEXAS
INSTRUMENTS

DC SWITCH

SANTON

SANTON

THE
LEADING
BRANDS

**NIPPON
CHEMI-CON**

CAPACITORS

NIPPON

DRIVER IC

INFINEON

infineon

THIN-FILM CAPACITOR

XIAMEN FARATRONIC



CURRENT SENSOR

LEM



IGBT

ON SEMICONDUCTOR



ON Semiconductor®

DRIVEN OPTOCOUPLER

AVAGO

AVAGO
TECHNOLOGIES

CPU

ST / TEXAS INSTRUMENTS / ATMEL

Atmel  **TEXAS
INSTRUMENTS**

DC SWITCH

SANTON

 **santon**

QUALITY IS PRICELESS

Other brand 5kW

Quantity: 8
Capacity: 1000 μ F
Brand: UNICON
(Tier 3 Brand)



FoxESS 5kW

Quantity: 10
Capacity: 1200 μ F*
Brand: NIPPON
CHEMI-CON
(World's No.1 Brand)



*Can increase life-expectancy by up to 20%

The most important components in an inverter are the capacitors, and they account for more than 20% of the total electrical component costs. Is a very small saving on price worth the big reduction in life-expectancy? Quality isn't expensive, it's priceless.



Production Quality



Testing

1

AOI Test



2

Single Board Test



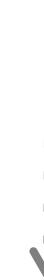
3

Safety Test



4

High Voltage Test



8

IP65 Test



7

ATE Test



6

Aging Test



5

ATE Test



Production Quality -MES



A high-angle, wide shot of a modern office lobby. The space is characterized by its clean, minimalist design with white walls and floors. Large glass railings with metal balustrades define different levels of the space. Several large, lush green indoor plants are strategically placed throughout the lobby. In the foreground, there are modern seating areas with black and orange sofas and armchairs. A central circular area features a white table surrounded by a patterned rug. The background shows a glass-enclosed staircase and a large window that lets in natural light.

AFTER-SALES



FoxESS

Global After Sales Service Support

<p>After Sales Service</p> <p>Hotline Support</p> <ul style="list-style-type: none"> Assistance and technical support via phone or Email. <p>Local Technical Support</p> <ul style="list-style-type: none"> Local support engineers (AU, EU, UK). <p>F&E Support</p> <ul style="list-style-type: none"> Highly qualified and experienced Field Application Engineers working closely with R&D. <p>R&D Support</p> <ul style="list-style-type: none"> Industry experts available to help with the most difficult technical situations. <p>Warranty</p> <ul style="list-style-type: none"> 5 Year standard warranty with warranty extension up to 20 years available. 	<p>Replacement Support</p> <p>Device replacement in case of failure</p> <ol style="list-style-type: none"> Replacement support is provided by our installers or third party service providers. If the inverter is exchanged within the warranty period, the remaining period is transferred to the replaced unit. 	<p>Training Support</p> <p>A dedicated team of technical experts provide professional training to:</p> <ul style="list-style-type: none"> Our Customers FoxESS Service staff Our Global Service Providers 	<p>On-Site Service Repair, and Maintenance</p> <ul style="list-style-type: none"> On-site service through FoxESS Global Team. Latest technical equipment and tools. Short response time, typically within 24 hours globally, and high degree of flexibility. Service and maintenance contracts available.
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Service Guarantee



We offer a 48 hour repair and 72 hour replacement commitment across Europe and the Australasian area. The experts on our service line will assist you during the installation and commissioning of PV systems and they are always available to advise you on technical issues.

- **Chubb insurance**

- Chubb Insurance minimizes your risk and guarantees our after-sales service.

- \$20million product insurance

- \$20million third party liability insurance

- **Professional technical teams in AU, UK, DE & NL.**

- **Co-operation with Watt Test in Australia.**



TOUR



Stainless Steel Building

Energy Building

Tsingshan HQ



Tsingshan HQ

Offices

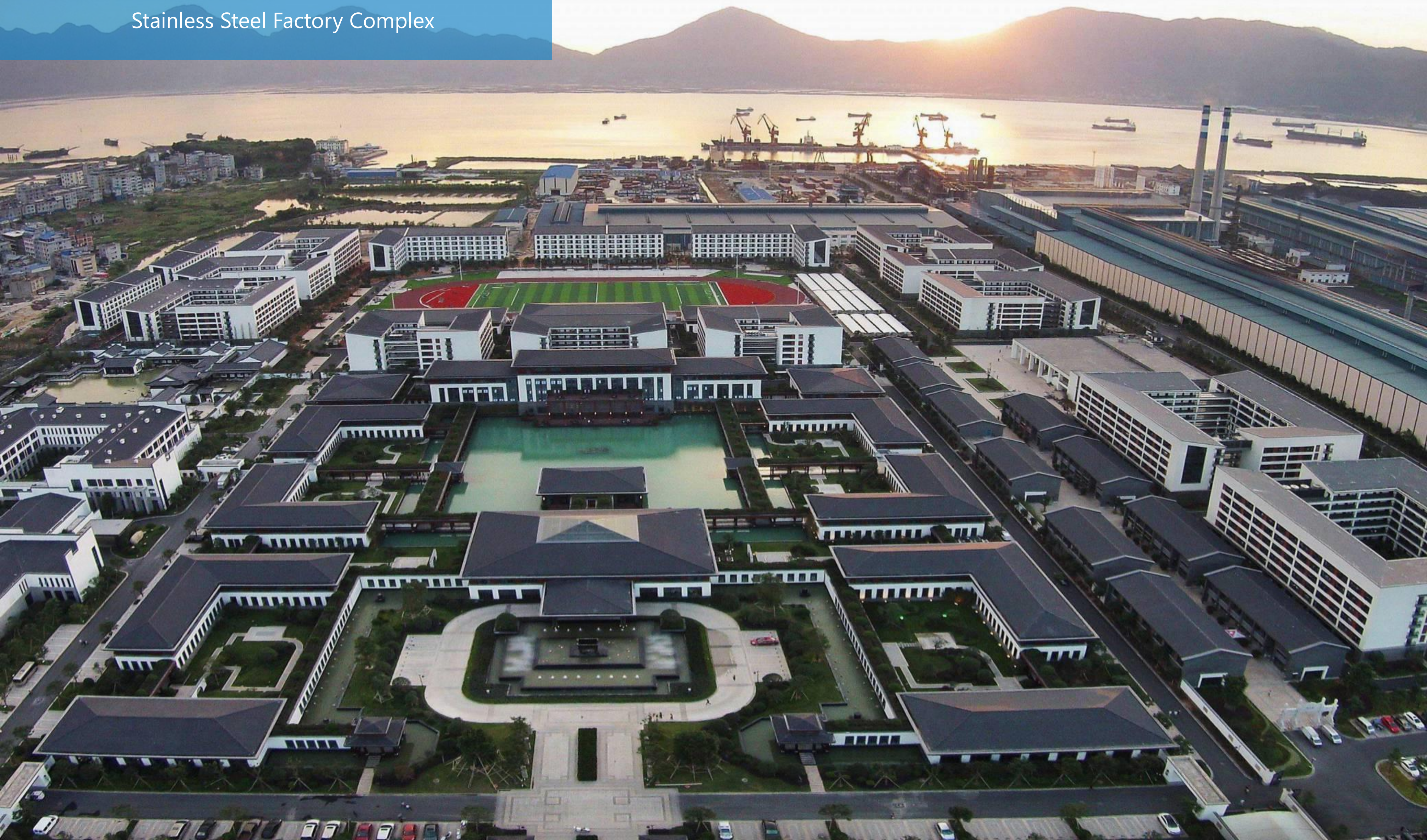


Conference Hall



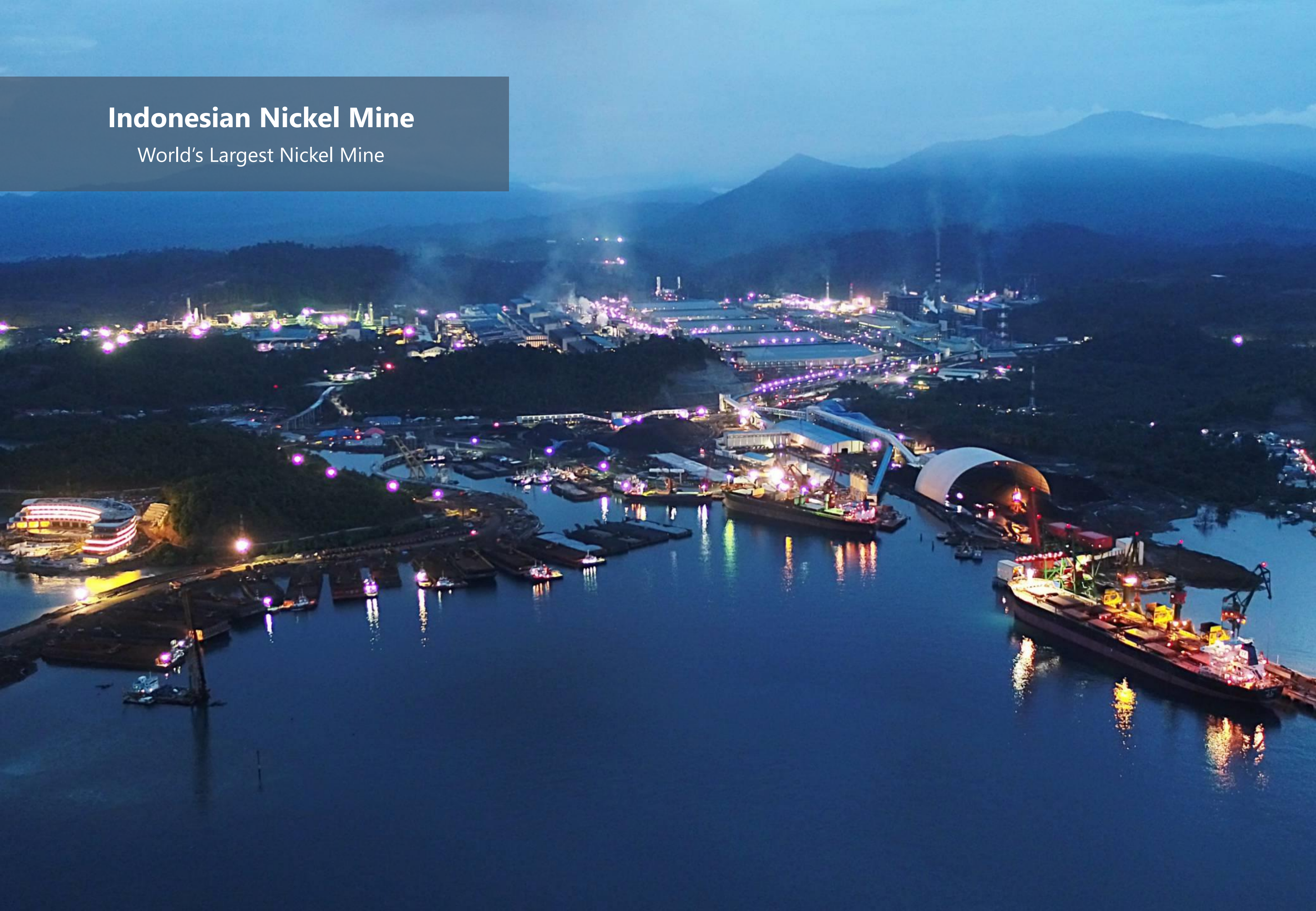
Ningde

Stainless Steel Factory Complex

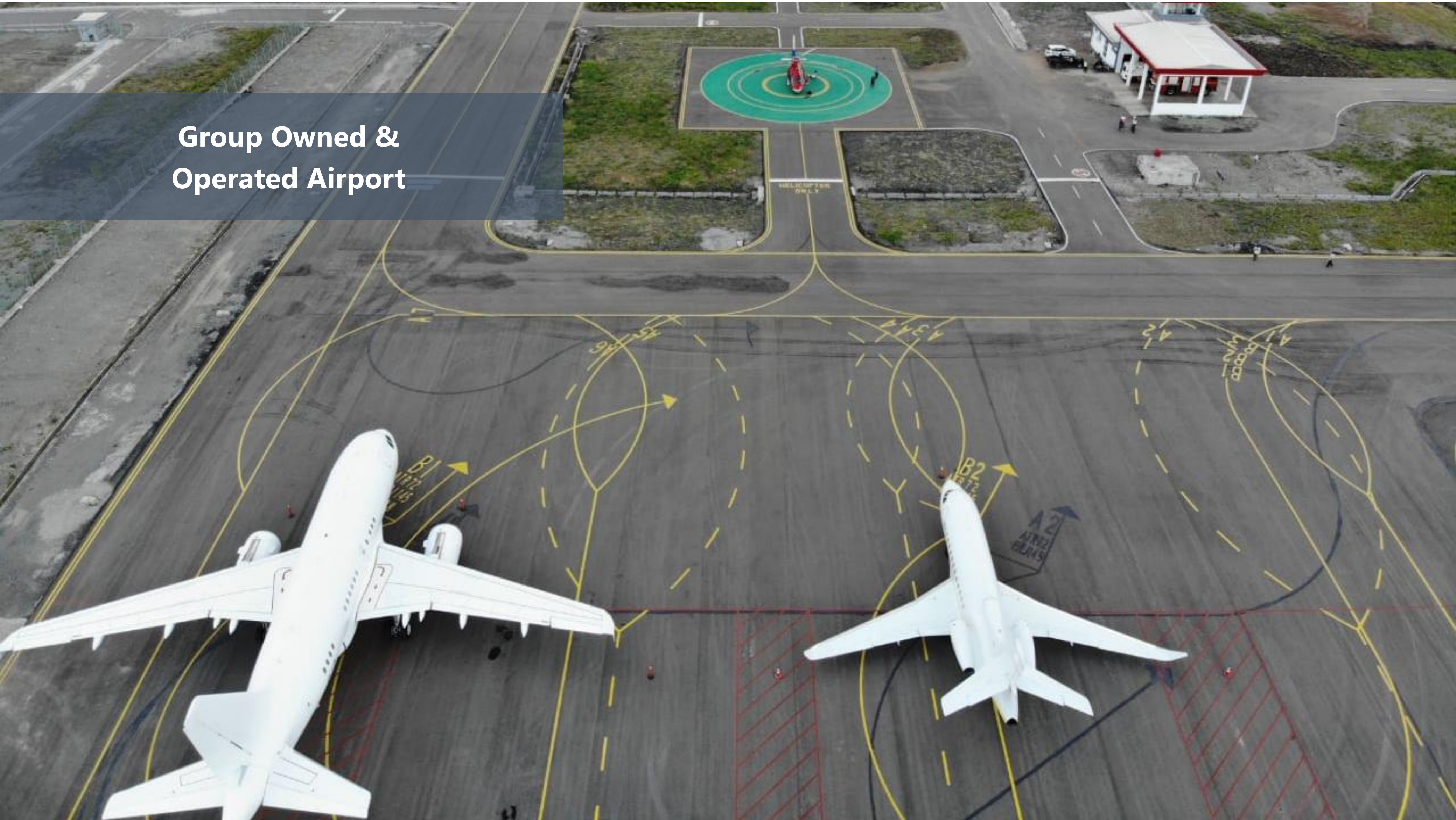


Indonesian Nickel Mine

World's Largest Nickel Mine



Group Owned & Operated Airport



Port In Indonesia



Power Plant



R&D Centre



办公楼



REPT Battery Factory



FoxESS