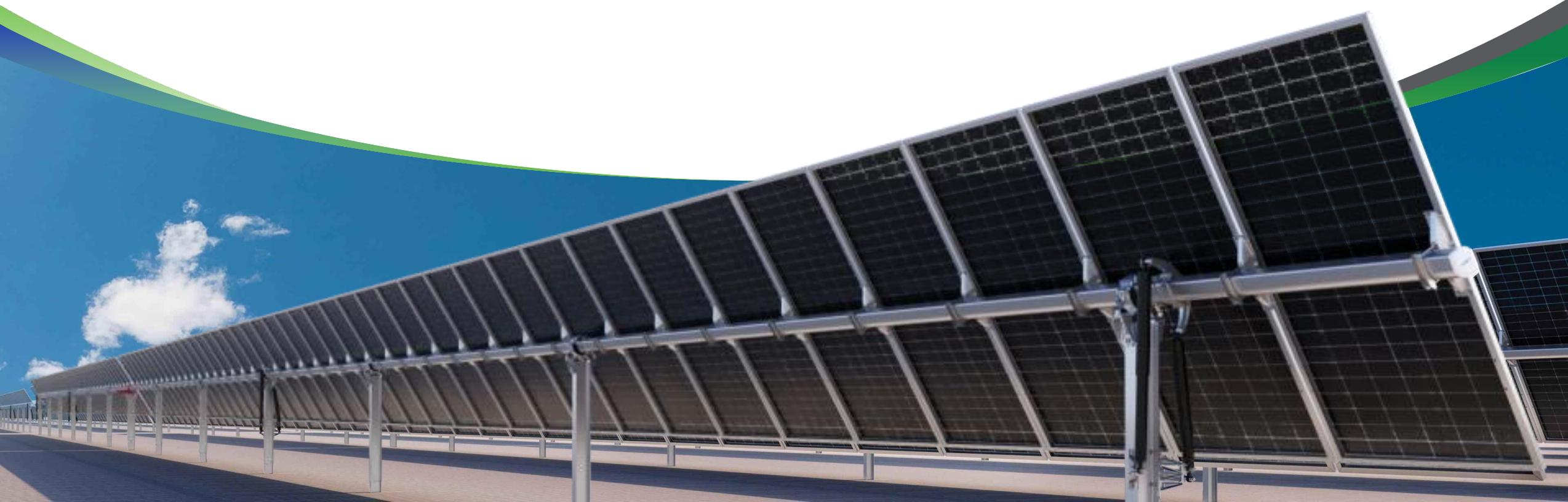
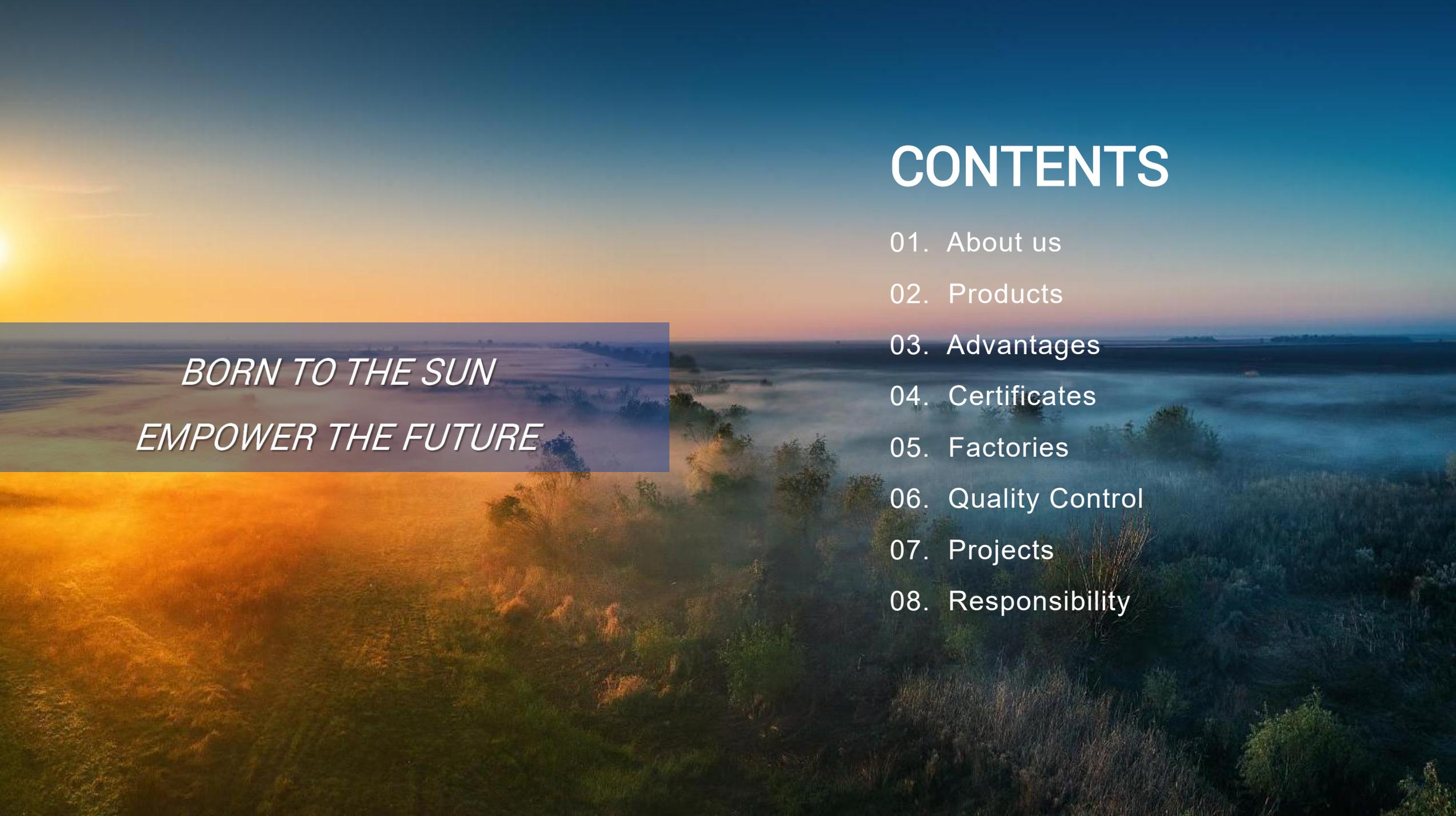




ENTERPRISE PRESENTATION





*BORN TO THE SUN
EMPOWER THE FUTURE*

CONTENTS

- 01. About us
- 02. Products
- 03. Advantages
- 04. Certificates
- 05. Factories
- 06. Quality Control
- 07. Projects
- 08. Responsibility



About us

METAVAST
恢弘集团

ESET

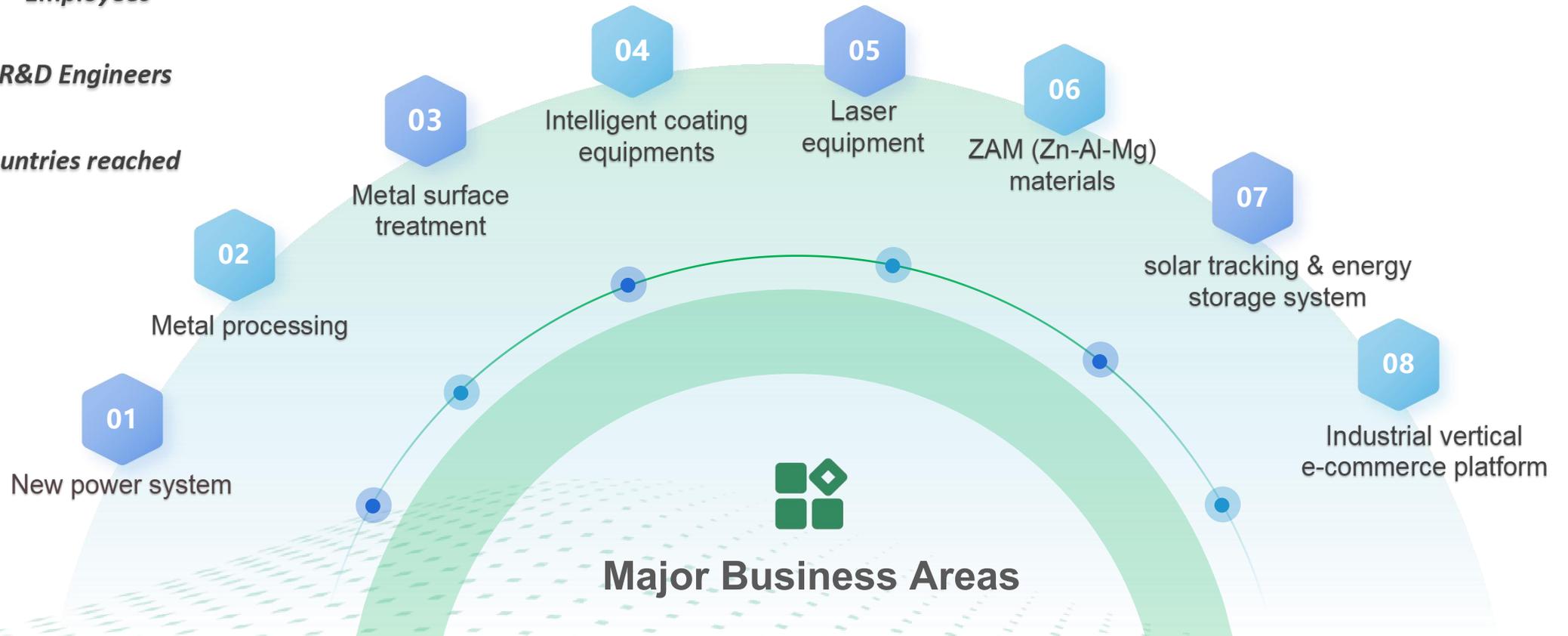
Metavast Group is an innovative enterprise oriented by customer needs and led by technology research and development.

9 Subsidiaries

2800+ Employees

300+ R&D Engineers

50+ Countries reached





REMARKABLE
瑞马科宝

HDG



瑞马智能

HDG, Continuous
Galvanizing Production Line
& Laser Cutting Machine



宝华新材

ZAM(Zn-Al-Mg)
materials



Solar Tracking &
Racking system



恢弘集团

Group Established

1984

2009

2017

2019

2020

2021

2022



国华管塔
Guohua Tube Tower

Steel Tower & Pole



恢弘国际
HYSTONE

EPC



优美特工程技术
UBEST ENGINEERING TECHNOLOGY

Tube & Screw Piles



优全工品
找工业品 上优全工品
联合采购价更优!

E-commerce



永瑞祥

HDG & Steel Tower



Baohua Metal Material

Is a leading manufacturer of ZAM(Zn-Al-Mg) materials widely used for solar, construction, auto, electrical, agriculture & animal husbandry, traffic, etc.



REMARKABLE

China's leading hot dip galvanizing service company
40+ years Anti-corrosion experience since 1984
10 environmental automatic galvanizing lines



UBEST Engineering Technology

Specialized in manufacturing various types of tube & screw pile.



Guohua Tube Tower

Is an industry leader in design, manufacturing and supply Steel pole, Steel tower, Steel tube tower, Substation steel structure & Gantry, Steel structure for power, telecom, lighting, etc..



RITMAN

RITMAN is an intelligent equipment company.
Coating technology and equipment:
Batch galvanizing line: General, Blowing, Centrifugal
Continuous galvanizing line: ZAM, GI, GL, etc.
Laser cutting machine



Youquan E-Commerce Information Tech

Is an industrial vertical e-commerce platform for galvanizing steel products, fasteners and accessories for Power and PV industry etc.



Aim to be Global leading solution provider for renewable energy

To provide more efficient, reliable and cost-effective products and services

Contribute to the sustainable development of the global energy industry, empower people to have a cleaner, better and low-carbon life

30 GW

Annual Capacity

100+

R&D

4

Modern Factories

40+

Manufacturing Lines

10

HDG Lines

30+

Patents



Solar system

ESET Solar Business Department focuses on the R&D, manufacturing and sales of Solar trackers, fixed tilt & flexible mounting systems, BIPV systems.



EPC system

ESET EPC & ESS Business Department specialized in the field of distributed solar plant and energy storage system, and carries out the projects contracting, engineering, procurement, investment and operation in China.

R&D

Customer demand-oriented

Promoted by technical innovation and development

ESET



Professional and
experienced R&D team



100+ experts
(30% Master/Doctor degree)



Involved in the field of wind
tunnel, civil works, mechanical,
electrical, software & AI etc



Products



ESEEK 1P Solar Tracker

Basic Parameters		Electronic Controller Datasheet	
Tracking Type	Horizontal single-axis tracker, independent row	Tracking Method	Astronomical algorithm, position sensor closed loop control, backtracking
Tracking Range	$\pm 60^\circ$	Power Supply	Grid/Self(AC/DC), lithium battery backup
Drive Mode	Slewing drive	Tracking Accuracy	$\leq 1^\circ$
Stow Position	22m/s or Customization	System Voltage (DC)	$\leq 1500V$
Slope Adaptation	$\leq 20\%$ (S-N), Unlimit(E-W)	Operating Temperature	-40°C to 60°C (Optional ultra-low temperature battery for below-25°C)

ESEEK II 1P Solar Tracker

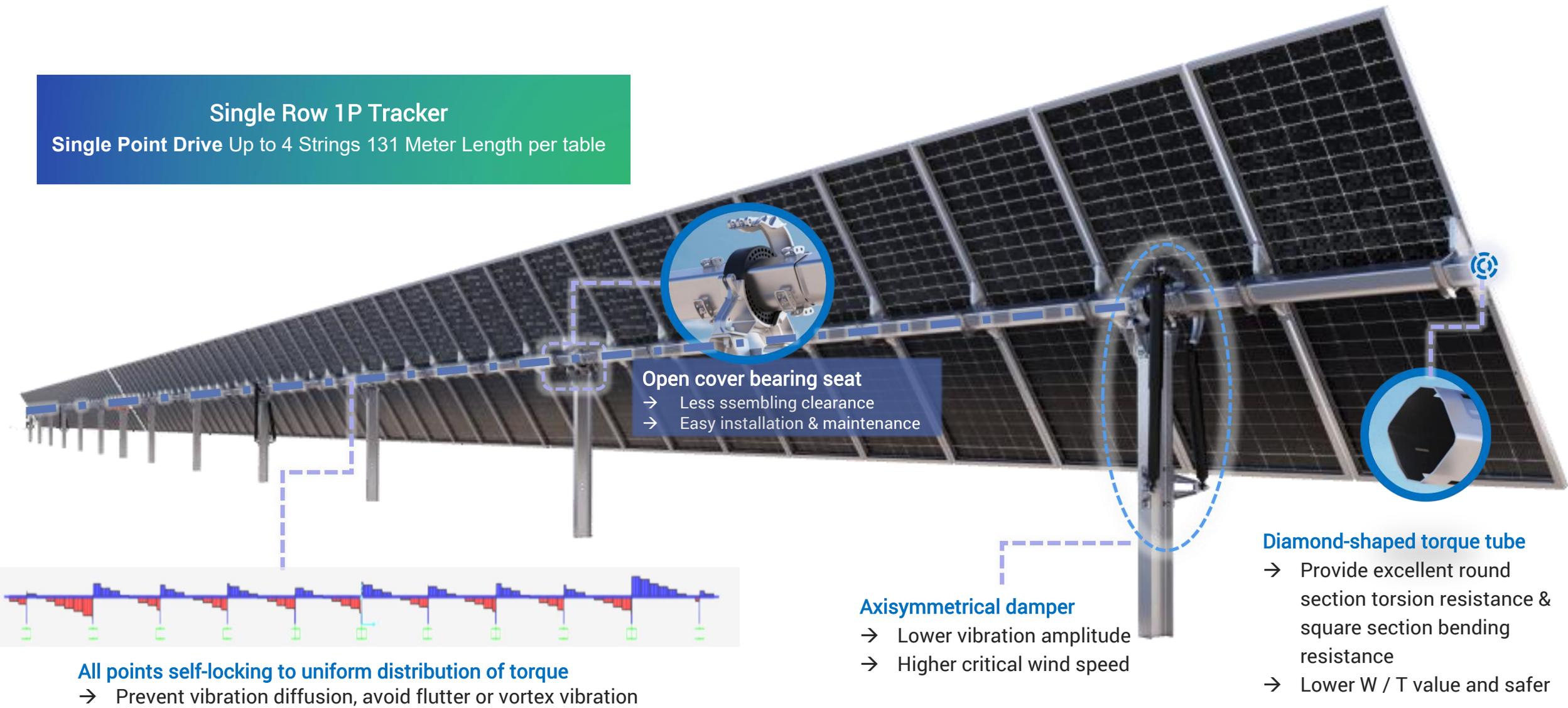
Basic Parameters

Electronic Controller Datasheet

Tracking Type	Horizontal single-axis tracker, independent row	Tracking Method	Astronomical algorithms & Position sensor closed loop control
Module Configuration	1 in portrait (1P)	Tracking Accuracy	≤ 1°
Tracking Range	±60°	Backtracking	Intelligent algorithms for terrain adaptation
Drive Mode	High accuracy slew gear, single point	Communication Options	LoRa / ZigBee / RS485
Module Strings / Tracker	1-4 strings available	Other Optional Modes	Night Return / Snow Mode / Hailstone Mode
System Voltage (DC)	1000 V or 1500 V	Backup Power	Lithium battery backup when powered by string or self powered
Foundation Options	Ramming Post / Predrill + concrete pile / PHC Pile	Flood Mode	Horizontal stow position (Optional)
Structure Material	Hot-dip galvanized / ZAM	Snow Mode	Max tilt angle (Optional)
Power Supply	String (default) / Self / AC	Cleaning Mode	Configurable angle, convenient for robot cleaning
Daily Power Consumption	0.03kWh / day / tracker	Maintain Mode	Configurable angle convenient to maintain
Design Wind Speed	Up to project condition	Manual Mode	Artificially control the target angle
Module Supported	Compatible with all type of modules	Protection Grade	IP65
Operating Temperature	-20°C to 60°C (-40°C to 60°C Optional)		
Slope Adaptation	≤20% (S-N), Unlimit (E-W)		

ESEEK II 1P Solar Tracker

Single Row 1P Tracker
Single Point Drive Up to 4 Strings 131 Meter Length per table

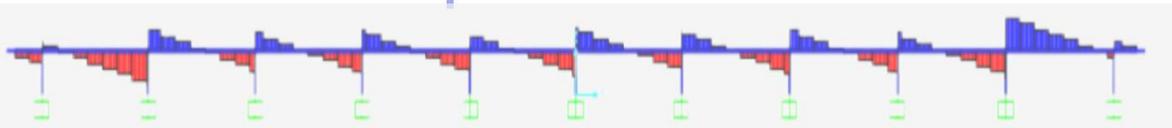


Open cover bearing seat
→ Less assembling clearance
→ Easy installation & maintenance

Axisymmetrical damper
→ Lower vibration amplitude
→ Higher critical wind speed

Diamond-shaped torque tube
→ Provide excellent round section torsion resistance & square section bending resistance
→ Lower W / T value and safer

All points self-locking to uniform distribution of torque
→ Prevent vibration diffusion, avoid flutter or vortex vibration



EXCEED 2P Solar Tracker

Basic Parameters		Electronic Controller Datasheet	
Tracking Type	Horizontal single-axis tracker, independent row	Tracking Method	Astronomical algorithms & Position sensor closed loop control
Module Configuration	2 in portrait (2P)	Tracking Accuracy	≤ 1°
Tracking Range	±60°	Backtracking	Intelligent algorithms for terrain adaptation
Drive Mode	High accuracy slew gear, single Point	Communication Options	LoRa / ZigBee / RS485
Module Strings / Tracker	2-6 strings available	Other Optional Modes	Night Return / Snow Mode / Hailstone Mode
String Voltage (DC)	1000 V or 1500 V	Backup Power	Lithium battery backup when powered by string or self powered
Foundation Options	Ramming Post / Predrill + concrete pile / PHC Pile	Flood Mode	Horizontal stow position (Optional)
Structure Material	Hot-dip galvanized / ZAM	Snow Mode	Max tilt angle (Optional)
Power Supply	String (default) / Self / AC	Cleaning Mode	Configurable angle, convenient for robot cleaning
Daily Power Consumption	0.05-0.08 kWh/day/tracker	Maintain Mode	Configurable angle convenient to maintain
Design Wind Speed	Up to project condition	Manual Mode	Artificially control the target angle
Module Supported	Compatible with all type of modules	Protection grade	IP65
Operating Temperature	-20°C to 60°C (-40°C to 60°C Optional)		
Slope Adaptation	≤20% (S-N), Unlimit (E-W)		

EXCEED 2P Solar Tracker

Single Row 2P Tracker

Multi-Point Drive down to 2 Strings 30 Meter Length per table

Multi-Point Drive Up to 6 Strings 99 Meter Length per table



Unequal Octagonal Torque Tube

- Provide better bending and torsional capabilities with minimum material

Stow at 0 Deg

- Less pressure to module
- Lighter weight & better cost effect

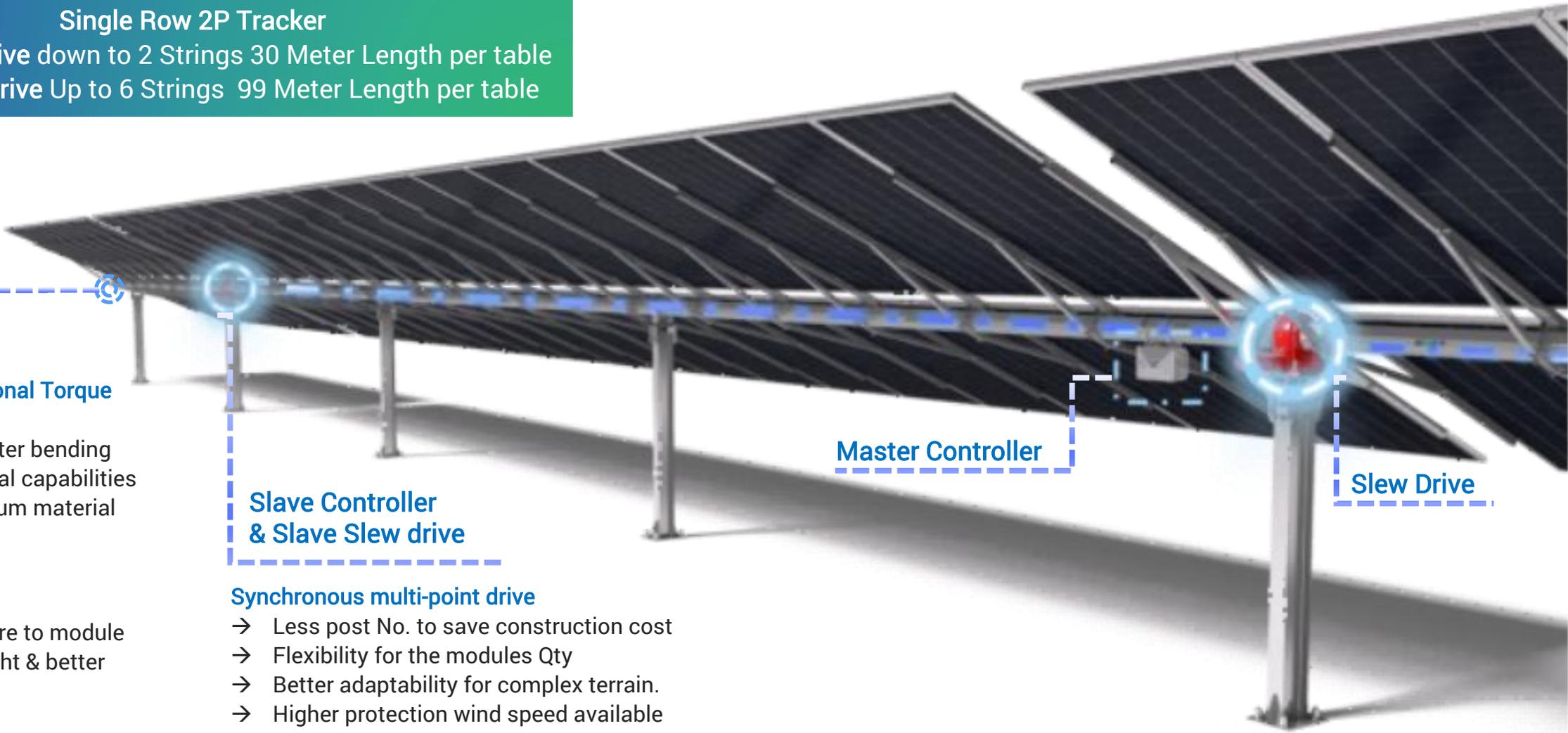
Slave Controller & Slave Slew drive

Synchronous multi-point drive

- Less post No. to save construction cost
- Flexibility for the modules Qty
- Better adaptability for complex terrain.
- Higher protection wind speed available

Master Controller

Slew Drive



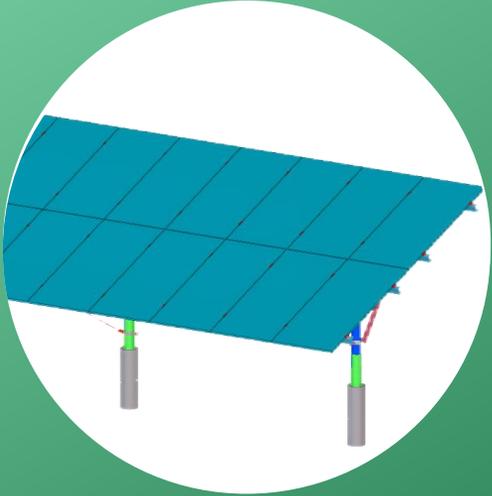
Fixed Adjustable Solar Mounting System



Basic Parameters		Modules and Arrangement	
Tracking Type	Single row independent system	Module Supported	Compatible with all kinds of module
Tracking Range	Determined by project	Module Configuration	2 in portrait (2P)
Drive Mode	Linear actuator	Operating Temperature	-40°C-60°C
Max Wind Velocity	As per project design		
Slope Adaptation	≤20% (S-N slope), Unlimit (E-W slope)		

Fixed Tilt Solar Mounting System

Single Post



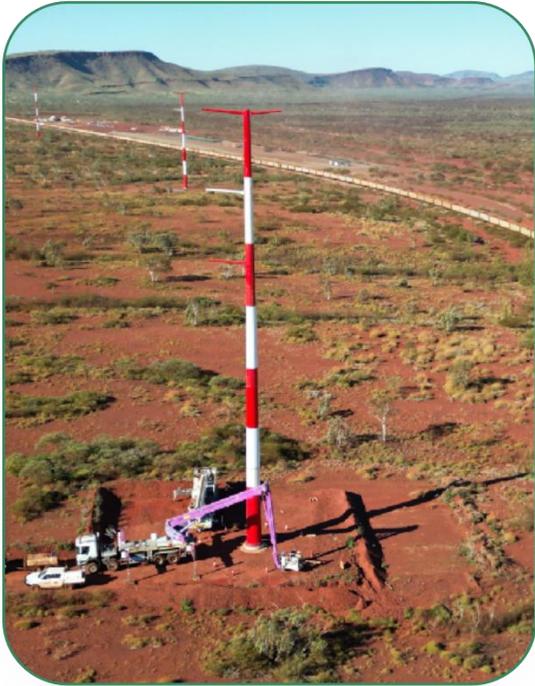
Type	Single Post
Foundation Type	Concrete, Ramming Pile
Wind Speed	Up to 83.3m/s
Snow Load	$\leq 1.2\text{KN/m}^2$, customization
Tilt	10° - 60° , customization

Dual Post



Type	Dual Post
Foundation Type	Concrete, Ramming Pile, Screw Pile
Wind Speed	Up to 83.3m/s
Snow Load	$\leq 1.2\text{KN/m}^2$, customization
Tilt	10° - 60° , customization

Power Transmission Tower And Pole



Steel Pole



Steel Tower



**Substation
Structure**



Gantry



Advantages

One-stop solution provider of design, manufacturing, supply, training and on-site service etc, making proposal more cost-effective and delivery under control.

Strictly implementing the enterprise management and whole process quality control system.

Perfect global distribution network with professional local teams for commercial and technical support.

The only supplier in China that can provide solar mounting system, BESS, and transmission tower & pole.



Certificates



HONOR



ISO certification



CPP



UL



TUV

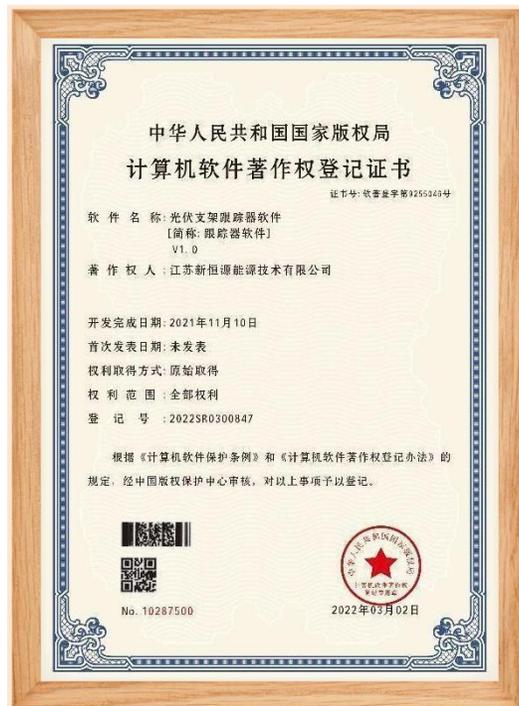


CE

- ISO- 9001/14001/ 45001
- CPP(Wind Tunnel Test), UL, TUV (IEC 62817) , CE



30+ Patents & Copyright



Qualified Supplier Certification

National Grid Corp of Philippines



SSD-2024-08-1995
August 28, 2024

MR. HUAN LIU
BUSINESS MANAGER OF POWER & TELECOM
JIANGSU GUOHUA TUBE TOWER MANUFACTURE CO., LTD.
NO. 109 JINGANG ROAD XUZHOU ECONOMIC
DEVELOPMENT ZONE XUZHOU, CHINA

SUBJECT: NOTICE OF ACCREDITATION - JIANGSU GUOHUA TUBE TOWER MANUFACTURE CO., LTD.

Dear Sir/Madame,

This is to inform you that your company's application for accreditation with National Grid Corporation of the Philippines (NGCP) has reached the **ACCREDITED** status with following categories:

LINE OF BUSINESS	CATEGORY	PRODUCTS & SERVICES
MANUFACTURER	SUBSTATION EQUIPMENT/MATERIALS	LATTICE TYPE STEEL TOWER, 500KV
MANUFACTURER	TRANSMISSION LINE MATERIALS/EQUIPMENT	LATTICE TYPE STEEL TOWER, 500KV
MANUFACTURER	TRANSMISSION LINE MATERIALS/EQUIPMENT	STEEL POLES, 500KV

Your assigned NGCP Vendor Code is **9000000592**.

As an accredited vendor, you will be receiving invitations to future tendering activities that are within your scope of products and services and can now be considered for awards. Your accreditation therefore signifies your commitment to providing service excellence and quality products.

Please be reminded that your accreditation status is subject for annual renewal on or before June of every year. Two (2) consecutive years of non-compliance with the submission of required documents for the annual renewal of accreditation shall be subject to Suspension.

Please feel free to reach out to our Vendor Management team at SSD_VM@ngcp.ph for any inquiries or assistance you might need moving forward.

We look forward to your continued cooperation.

Very truly yours,

SUPPLY CHAIN MANAGEMENT GROUP

RETIE - Colombia



SGS COLOMBIA S.A.S.
C&P-F490101
ORDEN No. 4200-42448
CERTIFICADO No. CRS24019
ORDEN CERT. No. CO-CERT240700472-01
CERTIFICADO DE CONFORMIDAD DE PRODUCTO
Jiangsu Guohua Tube Tower Manufacture Co., Ltd
No. 109 Jingang Road, Xuzhou Economic Development Zone, Jiangsu, China

Certifica que el producto identificado como SISTEMA DE SEGUIMIENTO HORIZONTAL DE UN SOLO EJE, importados y/o fabricados y comercializados en Colombia por Jiangsu Guohua Tube Tower Manufacture Co., Ltd, con referencias relacionadas en las siguientes páginas del presente documento, han sido evaluados de conformidad con:

Resolución 90708 del 30 Agosto de 2013 del Ministerio de Minas y Energía - por lo cual se expide el Reglamento Técnico de Instalaciones Eléctricas - RE TE. Numeral 20.26 PRODUCTOS UTILIZADOS EN INSTALACIONES ESPECIALES

Estos productos han sido sometidos a toma de muestras, inspección, ejecución de pruebas de laboratorio y evaluación del sistema de gestión de calidad del fabricante de acuerdo con el esquema de certificación 5 de la norma ISO/IEC 17067:2013.

Resultados obtenidos: **CONFORME**

Autorizado por:

SGS COLOMBIA S.A.S.

Camilo Ramirez
SGS Colombia S.A.S.
Carrera 100 No. 25C-11, Bodega 3
Bogotá D.C., Colombia

Fecha de Emisión: 2024-07-31
Fecha de Vencimiento: 2027-07-31
Versión 1

Página 1 de 2



CS-P-C-05-05 V.7 febrero 2023

Republic of Iraq Ministry of Electricity

كۆماری عێراق
وهزاره تي كاره با
Republic Of Iraq
Ministry Of Electricity
Directorate of Investments
and Contracts



جمهورية العراق
وزارة الكهرباء
دايرة الاستثمارات والتفويذ



العدد: ٥٩٣٣٢
التاريخ: ٢٠٢٢ / ١١ / ١٨
الى / الشركات العامة كافة

م/ شركة JIANGSU GUOHUA TUBE TOWER MANUFACTURE CO. الصينية

لترقي طلياً بامش السيد وكيل الوزارة لشؤون النقل والتوزيع المحترم على مطابعتنا العدد م/ ٤٥٧ في ٢٠٢٢/١١/١٨ المتضمن موافقة سياسته على ادراج الشركة اعلاه ضمن قاعدة بيانات وزارتنا وتصميمها على الشركات العامة لغرض الاستفادة من خدماتها علماً ان الشركة اعلاه متخصصة في مجال تصميم وتصنيع وتجميع ونصب (ابراج نقل وتوزيع الطاقة، ابراج الاتصالات، اعيد الاشارة، الهياكل الفولاذية والمنتجات المغنونة) ولديها اعمال مماثلة في عدة دول منها (استراليا، كندا، روسيا، المملكة العربية السعودية، الامارات العربية المتحدة، بنغلادش، الفلبين، غانا، اوروغواي، الفلبين، ماليزيا ونزانيا).

راجين التفطن بالاطلاخ والاستفادة من خدماتها وحسب الضوابط والتعليمات النافذة... مع التقدير.

- موافقة السيد وكيل الوزارة لشؤون النقل والتوزيع المحترم.
- رسالة الشركة.

المهندس
مها حمودي عبد الجبار
المدير العام
٢٠٢٢/١١/١٨



- نصفية منه/
- مكتب السيد الوزير المحترم ارجين التفطن بالاطلاخ ... مع التقدير.
 - مكتب السيد وكيل الوزارة لشؤون النقل والتوزيع المحترم / موافقة سياسته على مطابعتنا العدد م/ ٤٥٧ في ٢٠٢٢/١١/١٨.
 - موافقة السيد وكيل الوزارة لشؤون النقل والتوزيع المحترم / راجين التفطن بالاطلاخ ... مع التقدير.
 - مديرية الرقابة والتفتيش / راجين التفطن بالاطلاخ ... مع التقدير.
 - قسم تدقيق ومتابعة العقود المركزية / راجين التفطن بالاطلاخ... مع التقدير.
 - شركة TUBE GUOHUA TUBE الشركة / الاشارة التي رساتكم المرقمة IR/120 في ٢٠٢٢/٩/٢٧ راجين التفطن بالاطلاخ ... مع التقدير.
 - دائرة الاستثمارات والتفويذ / السيد معاون المدير العام المحترم / راجين التفطن بالاطلاخ ... مع التقدير.
 - دائرة الاستثمارات والتفويذ / قسم المناقصات / اضبارة الشركة (DB1796).

32_contracts@moelc.gov.iq البريد الالكتروني

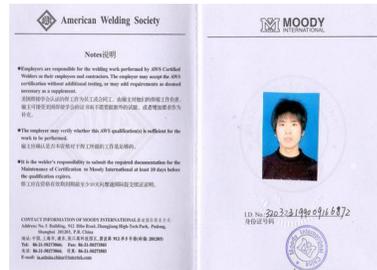
بغداد - المنصور - شارع النقابات



Experienced Testing Experts Assuring Quality



CWB -Canadian Welding Bureau



AWS-American Welding Society



International Welding Specialist



Qualification Certificate for Material Test



PT-Penetrant Testing



UT-Ultrasonic Testing



MT-Magnetic Particle Testing



RT-Radiographic Testing

International Zinc Association

Awarded to: Xuzhou RITMAN Intelligent Technology Co., LTD
授予：徐州瑞马智能技术股份有限公司

**International Zinc Association
(China) Metal Coating Technology Research Center
国际锌协会（中国）金属涂镀技术研究中心**



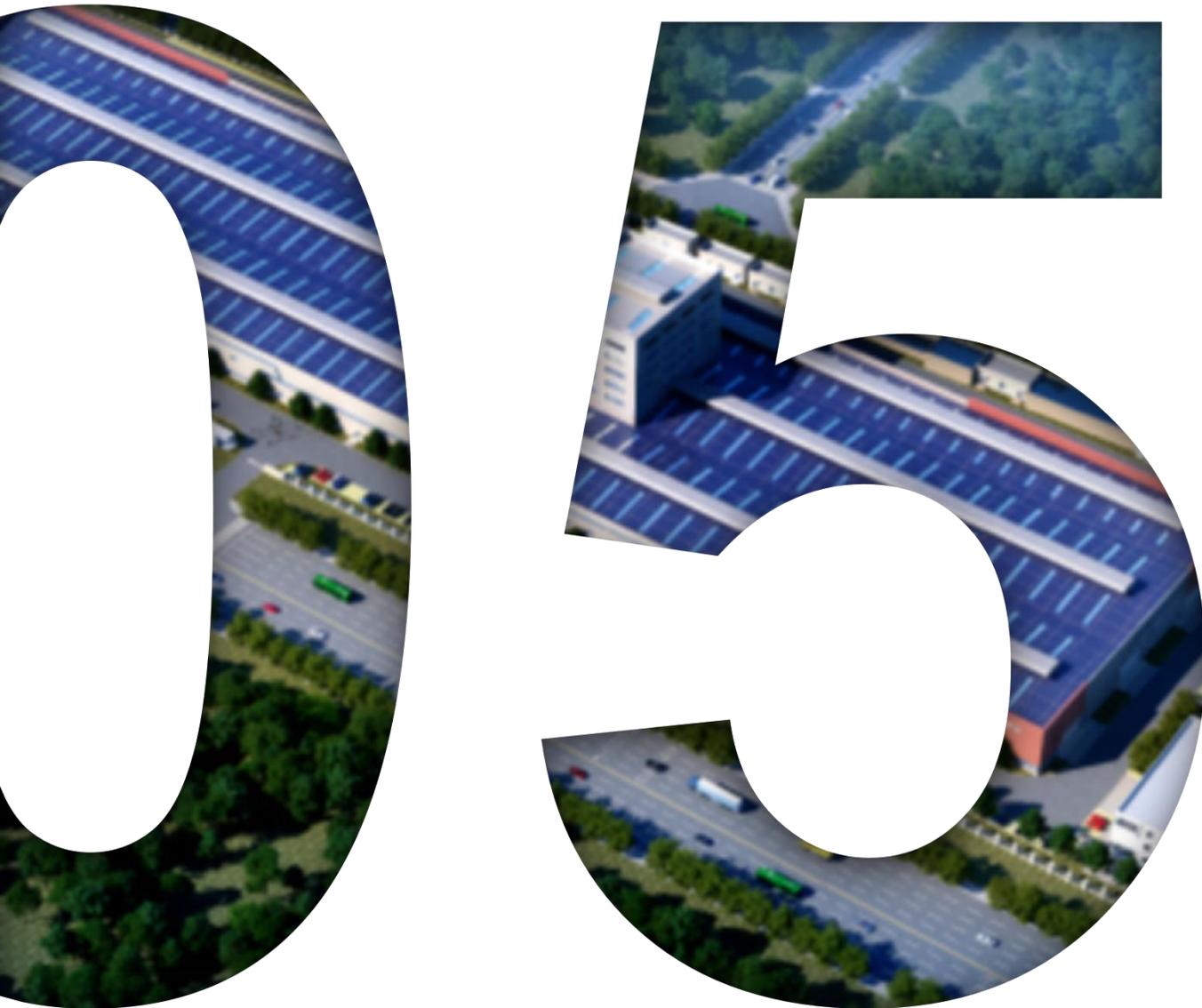
International Zinc Association (China)
Metal Coating Technology Research Center

Awarded to: Xuzhou RITMAN Intelligent Technology Co., LTD
授予：徐州瑞马智能技术股份有限公司

**International Galvanizing Technology
(China) Training Center
国际镀锌技术（中国）培训中心**



International Galvanizing Technology
(China) Training Center



Factories

ESET



Production



Manufacturing

Large Scale with Strong Integrative Competence

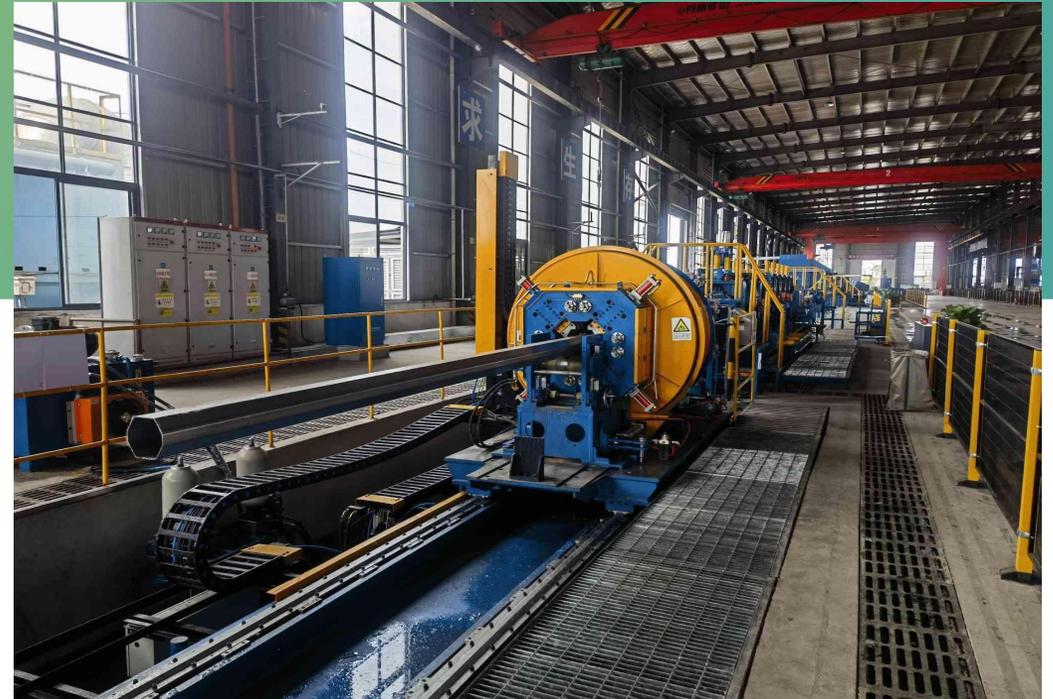
Zn-Al-Mg Production Line

450,000 tons/year



Solar Structure Production Line

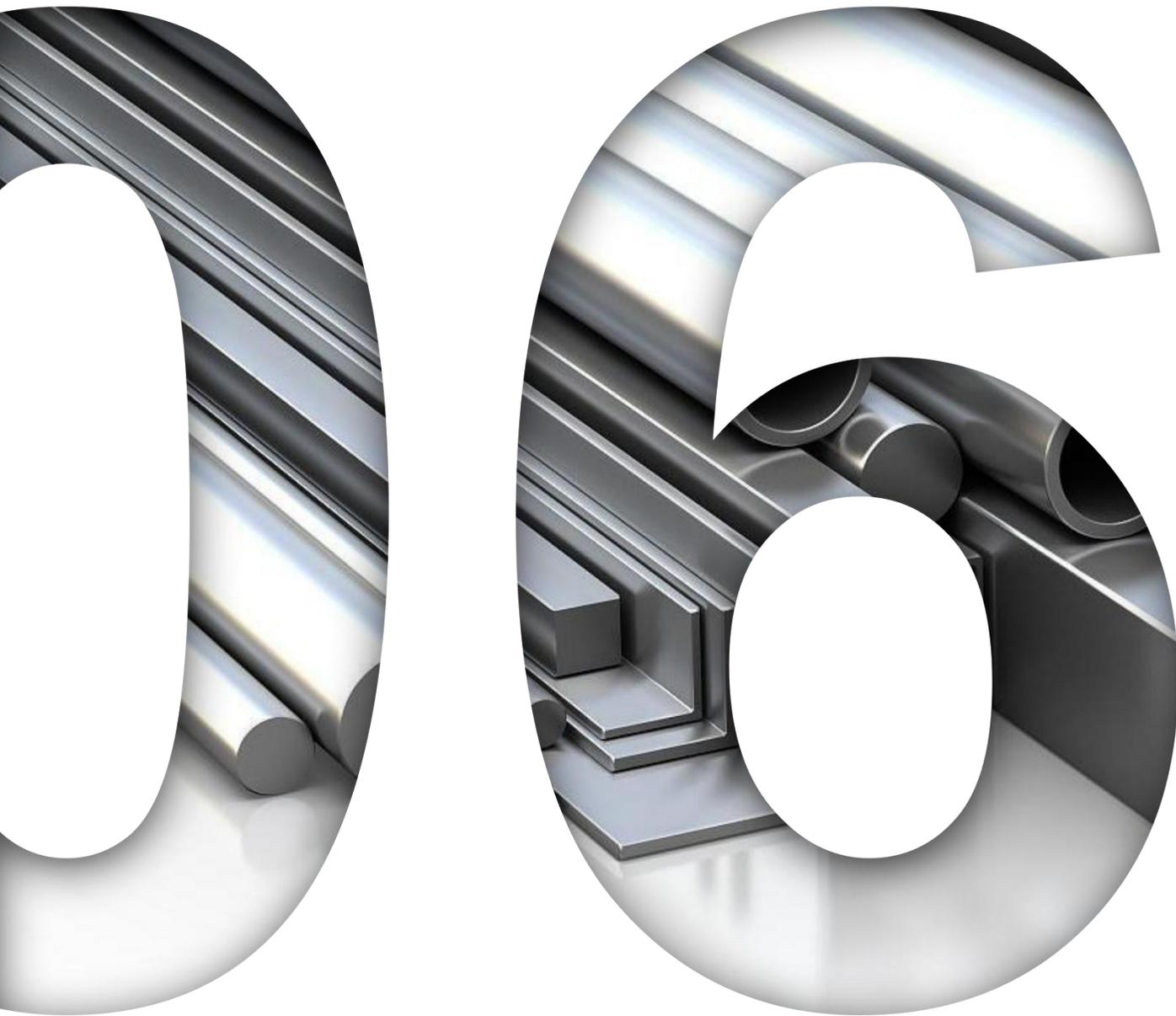
30 GW/year



Hot Dip Galvanizing Line

750,000 tons/year



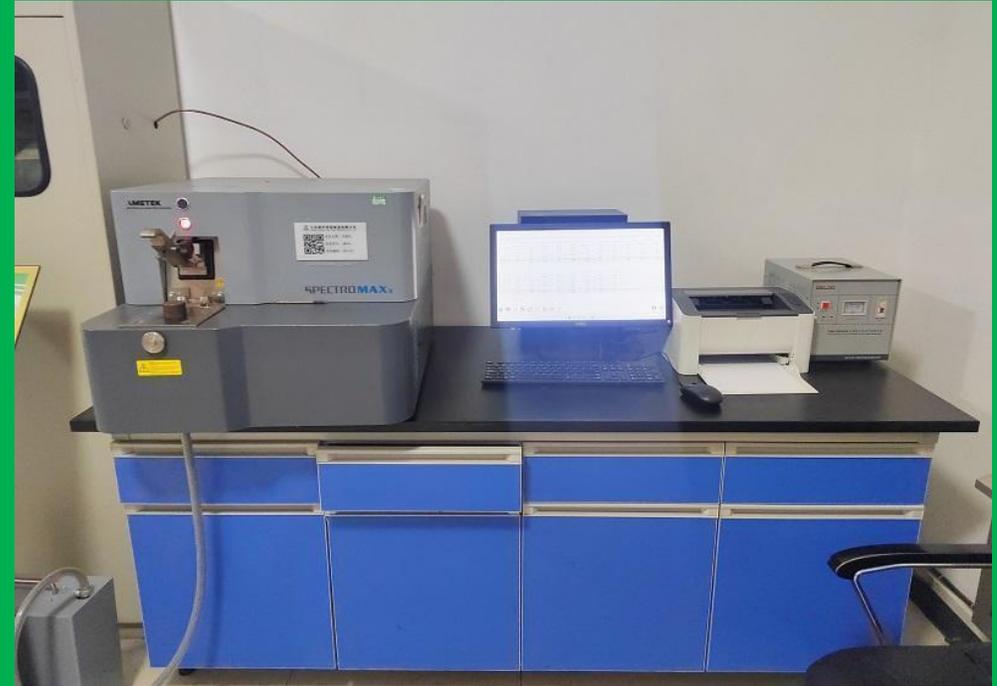


Quality Control

Raw Material Test



Mechanical Testing



Chemical Composition Testing

EMC, Extreme Temperature and Prototype Test

EMC Testing



Temperature Testing



Prototype Testing



Structure Test



Electronic Control Test



Lightning surge generator

High and low
temperature
freezing cycle test



Grouped pulse generator



High voltage DC power supply



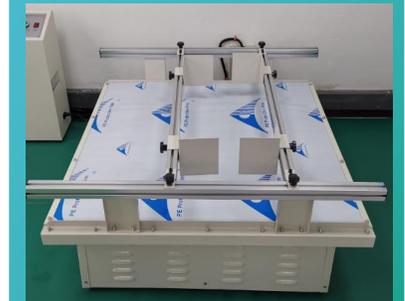
Electrostatic generator



Salt spray test



Vibration test





Projects



770MW Fixed Tilt Mounting System in Jiayuguan - 2023



200MW Fixed Tilt Mounting System in Jinchuan - 2023



200MW Agricultural Mounting System in GuanLing - 2023



450MW Single-axis Tracker in Fushan - 2023



300MW Fixed Adjustable Mounting System in Longwanggou - 2023



Huaneng 160MW Fixed Tilt Mounting System in Puwen - 2023



119MW Fixed Tilt Mounting System in Zouping - 2023



120MW Fixed Adjustable Mounting System in Xinjiang - 2023



300MW Agricultural Fixed Mounting System in Nanning - 2022



200MW Fishery Fixed Tilt Mounting System in Xiantao - 2022



120MW Fixed Tilt Mounting System in Fushun - 2022



Huaneng 160MW Fixed Tilt Mounting System - 2022



150MW Fixed Tilt Mounting System in Datun - 2022



68MW Single-axis Tracker in Henan - 2022



200MW Fixed Tilt Mounting System in Suzhou - 2022



100MW Flexible Mounting System in Taohualing - 2022



160MW Fixed Tilt Mounting System in Baotou - 2022



200MW Tilt Fixed Mounting System in Jinchang - 2022



100MW Agricultural Fixed Tilt Mounting System in Nanzheng - 2022



100MW Fixed Tilt Mounting System+Energy storage in Xinjiang - 2022



11MW Single-axis Tracker in Namibia - 2023



7.5MW Fixed Tilt Mounting System in Philippines - 2023



110MW Fixed Tilt Mounting System in Bulgaria - 2023



136MW Single-axis Tracker in Brazil - 2023



15MW New Zealand - 2022



80MW Colombia - 2022



50MW Greece - 2022



20MW USA - 2022



Local team provides Agile and Fast-response services for you and more offices are on-boarding



Responsibility

Social Responsibility

Donate to establish the "**Metavast Library**", providing interesting and helpful books for children who love reading, and helping them to enrich their inner world with reading.



It covers a wide range of books, including social science, natural science, philosophy, and comprehensive books.

The library has an area of 180 m², with more than 7,000 books at present.



Social Responsibility



Metavast Volunteer Association



Build Sichuan Daliangshan Primary School

Visit the families in difficulty of Jingshan Primary School





Create a World-Class Brand of Solar Mounting Structure





THANKS

Jiangsu EverShine Energy Technology Co., Ltd.

Add: Xuzhou Economic Development Zone , Jiangsu , China

TEL: +86-516-83152187

E-mail: admin@jseset.com

Web: www.jseset.com (solar)

www.sinosteelpole.com (power)

Earnest | Openness | Courage | Responsibility
