

Born to the **Sun**

*Empower the future*

**ESGET**

A company of **METAVAST**

**SOLAR TRACKER PRESENTATION**

**1. ENTERPRISE OVERVIEW**

**2. PRODUCTS**

**3. ADVANTAGE**

**4. TYPICAL PROJECTS**

**ESGET**

A company of **METAVAST** P



# ENTERPRISE HISTORY

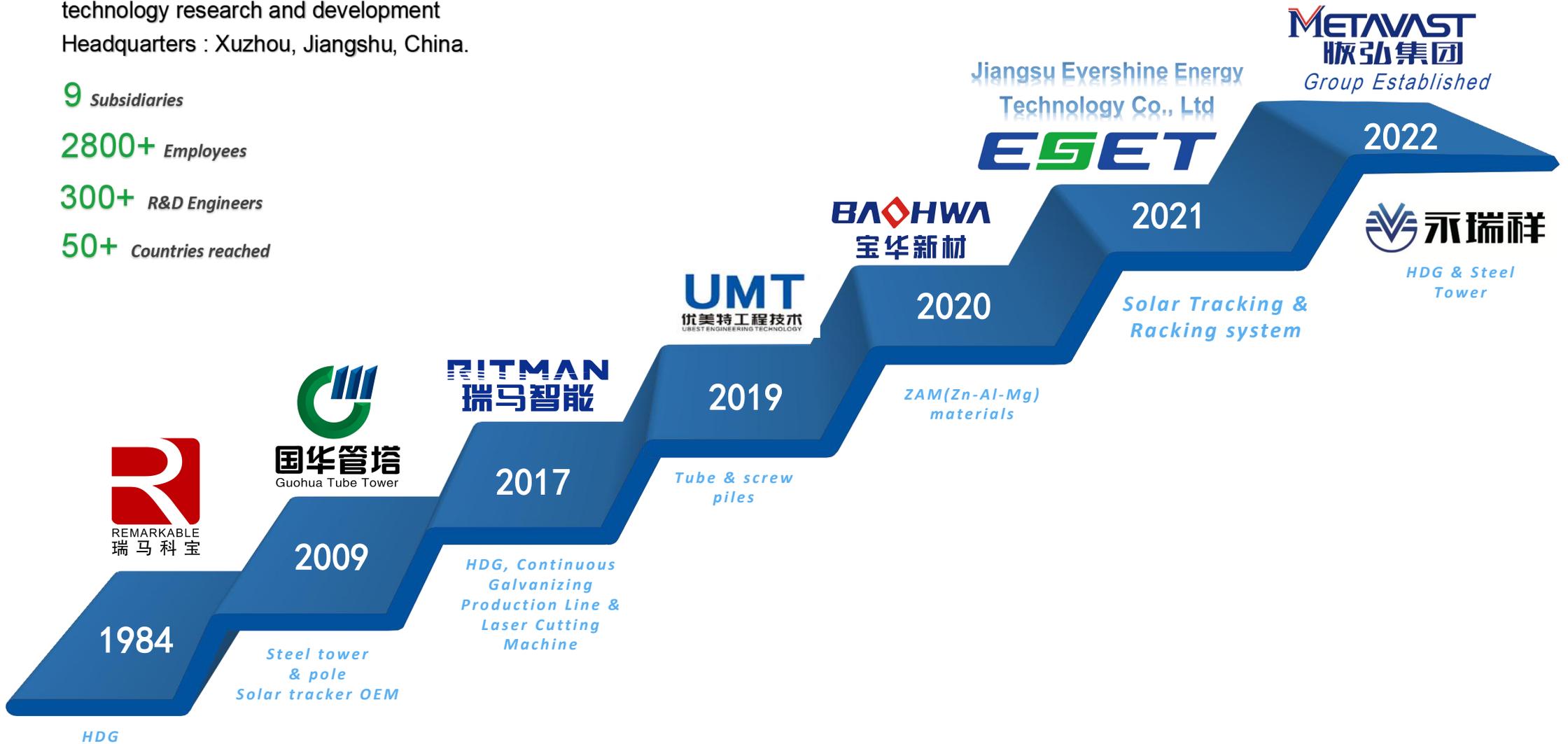
**METAVAST** is an innovative enterprise oriented by customer needs and led by technology research and development  
Headquarters : Xuzhou, Jiangshu, China.

9 Subsidiaries

2800+ Employees

300+ R&D Engineers

50+ Countries reached





**ESET**

*PROFILE OF*  
*ESET*

Founded  
**2021**

2023 delivery  
**7.5 GW +**

Headquarters  
**Xuzhou, China**

Year Production Capacity  
**30 GW+**

Employees  
**260+**

R&D Team  
**100+**

Accumulated Delivery  
**10 GW +**

Global Reach  
**10+ countries**

# Tracking System



**ESEEK - I & II**  
1P Solar Tracker



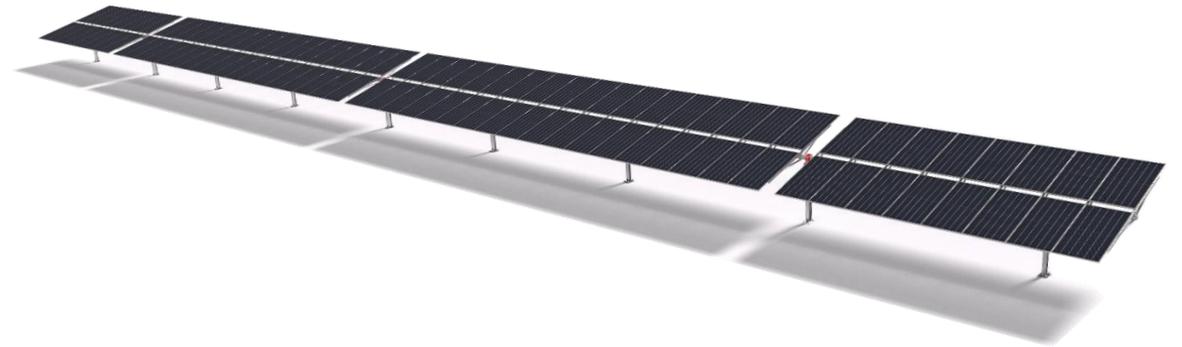
Independent row  
N-S  $\leq 20\%$  slope  
E-W unlimited



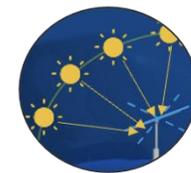
Wireless communication  
with Lora  
Easy installation



Power by  
String / Self / AC  
Lithium Battery Backup



**EXCEED**  
2P Solar Tracker



Astronomical Algorithm  
Built-in inclinometer  
Backtracking

# ESEEK I Solar Tracker

## Single Row 1P Tracker

**Single Point Drive** Up to 3 Strings 98 Meter Length per table

**Double Point Drive** Up to 4 Strings 131 Meter Length per table

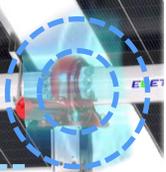


### Unequal octagonal torque tube

- Provide better bending and torsional capabilities with minimum material
- 35% higher strength vs. square tube

### Single slewing drive, could upgrade to electrical double slewing drive base on strings and load

- Provide more flexible design
- Higher protection wind speed available



# ESEEK II 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

### Diamond-shaped torque tube

- Provide excellent round section torsion resistance & square section bending resistance
- Lower W / T value and safer

### Axisymmetrical damper

- Lower vibration amplitude
- Higher critical wind speed

### All points self-locking to uniform distribution of torque

- Prevent vibration diffusion, avoid flutter or vortex vibration



# 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

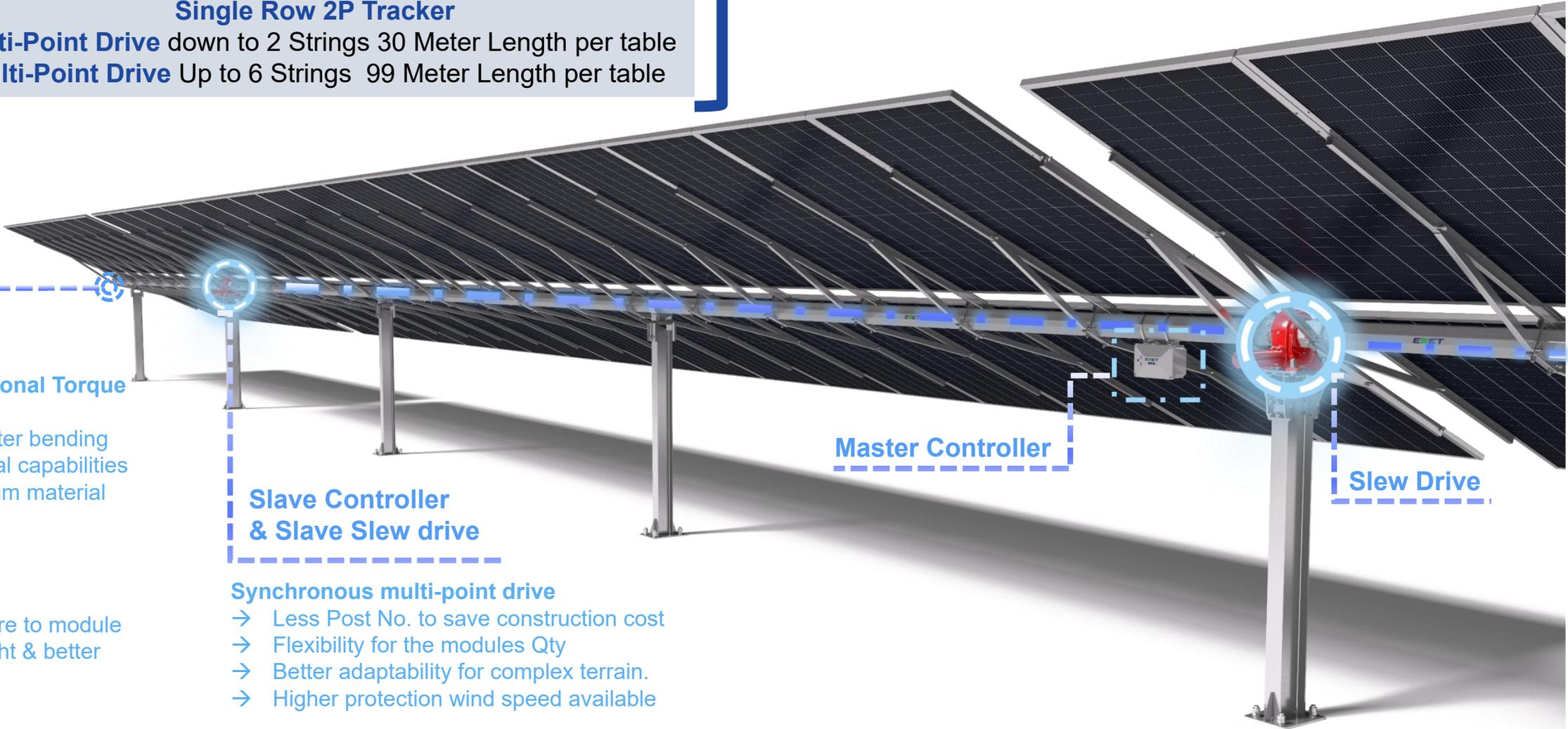
### Slave Controller & Slave Slew drive

### 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



# Tracker Control Unit (TCU)

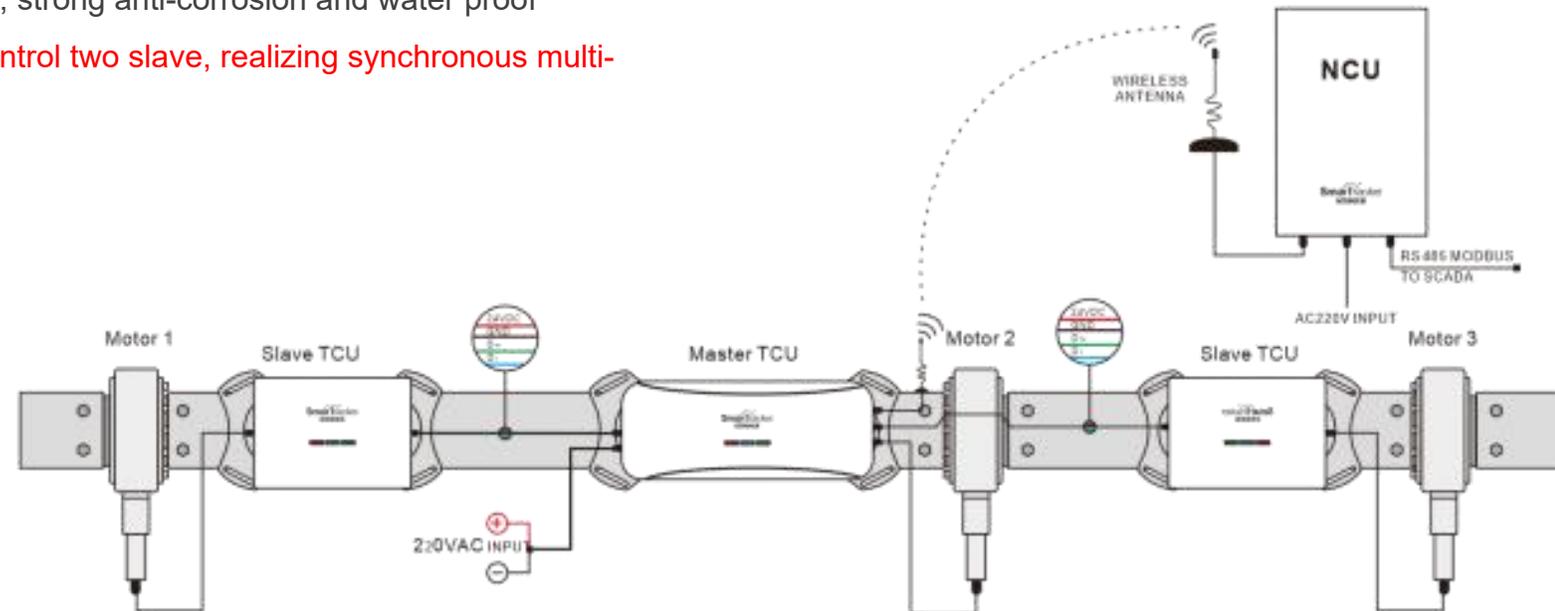
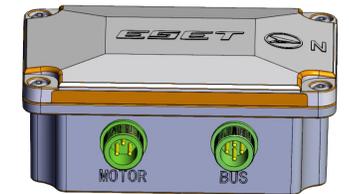
## TCU work independently or control slave unit

- 1500V DC String power / 220V AC from substation, Self power from small modules available
- 3Ah Lithium battery for back-up 3 days work at least
- Wireless one-button Upgrade, easy maintenance
- Cast aluminum stamping body, strong anti-corrosion and water proof
- **One Master TCU maximum control two slave, realizing synchronous multi-point drive in one table**

Master TCU

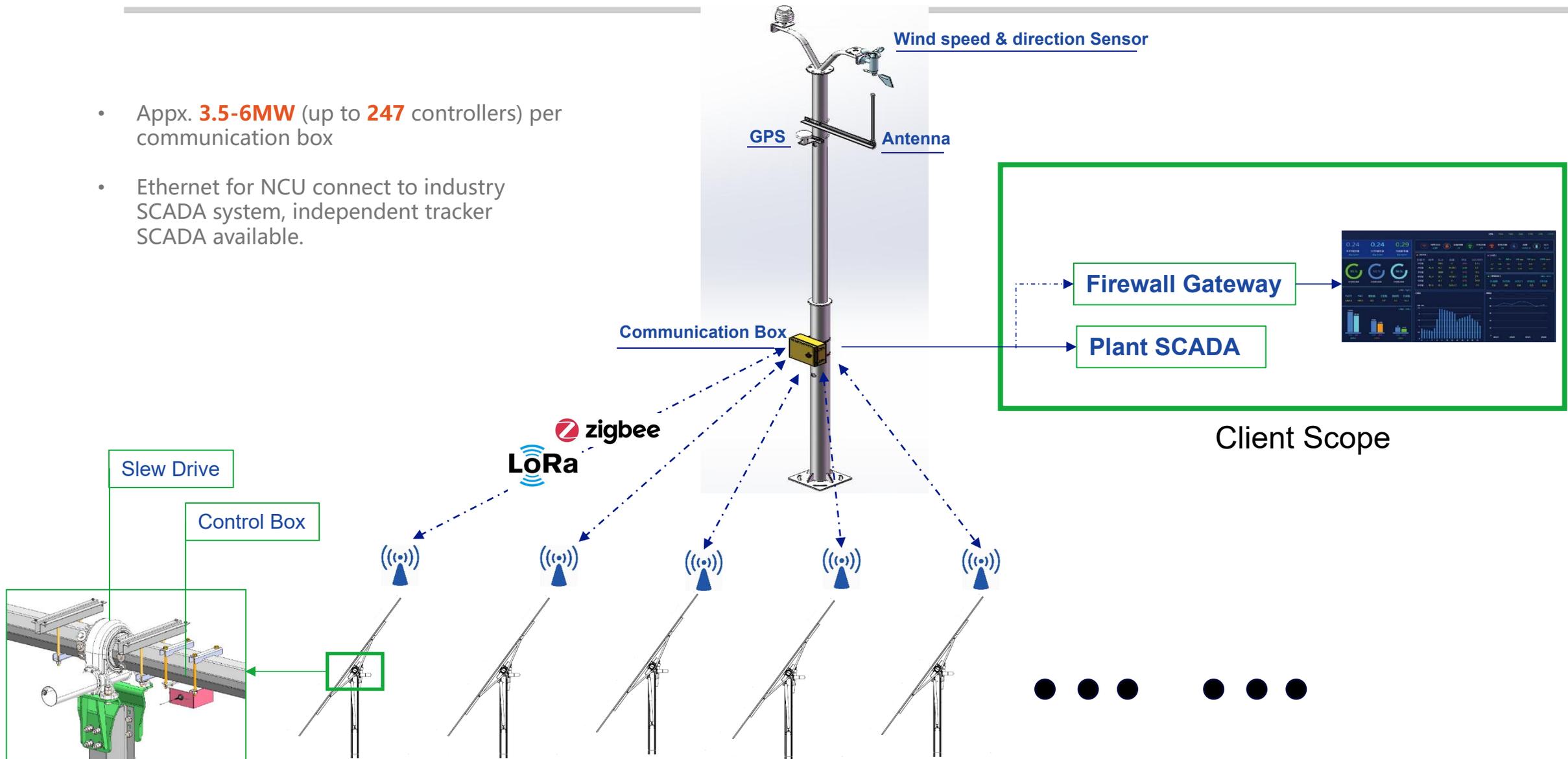


Slave TCU



# Wireless Communication

- Appx. **3.5-6MW** (up to **247** controllers) per communication box
- Ethernet for NCU connect to industry SCADA system, independent tracker SCADA available.



# Advantages

- ▶ 100+ engineers/experts, with 30% having Master/ Doctor degree, involving in the area of Wind Engineering, Civil, Geotechnical Engineering, Mechanical Automation, Simulation, Power electronics and AI etc, with 30+ patents & software copyrights.
- ▶ 50+ experimental instruments for various controller development & testing, and be able to carry on relevant tests independently.

Engineers/experts  
**100+**



Master/ Doctor  
**> 30%**

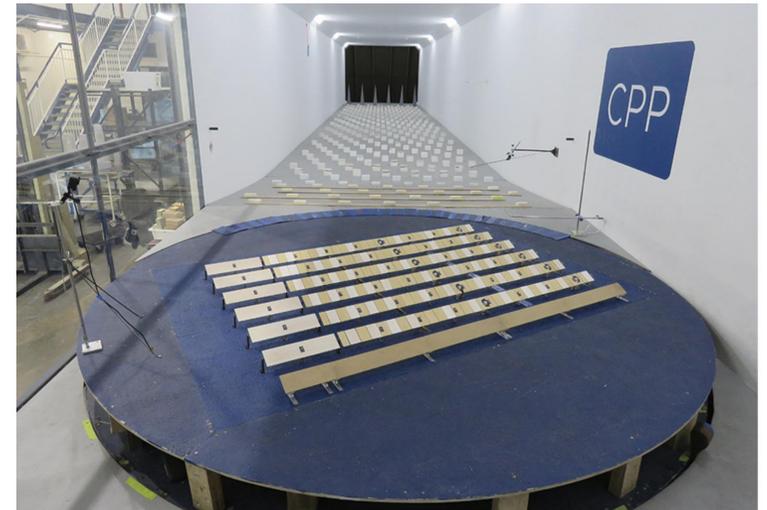


Patents &  
Software copyrights  
**30+**



Experimental equipments  
**50+**

- ▶ Close cooperation with worldwide authorities on wind engineering research & product standardization certification.



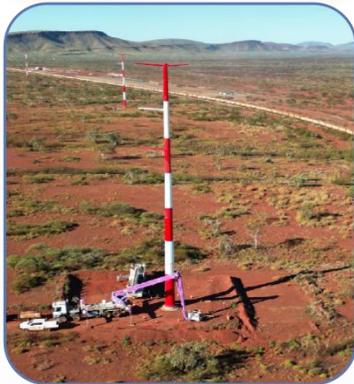
Wind Tunnel Testing

- ISO9001, ISO14001, ISO45001
- Wind Tunnel Test (CPP) , TUV (IEC62817), CE, UL, SBP

# Advantages

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

Thanks to group's transmission tower & pole supplying experience in 50+ countries since 2009 and its widely cooperation with famous top range partners



## Cooperation



HUAWEI



中国华电  
CHD



中国中铁



中国能建



国家能源集团  
CHN ENERGY



中国石化  
SINOPEC



中国电建  
POWERCHINA



中国华能  
CHINA HUANENG



中核集团  
CNNC



国家电网公司  
STATE GRID  
CORPORATION OF CHINA



国家电投  
SPIC



CHINT  
正泰



华能  
与您携手 改变生活



LONGI



中广核  
CGN

# Advantages

10 world-class, Eco-friendly and automatic hot dip galvanizing production lines, with capacity 750,000 T/Y, Since 1984.

Zinc Kettles (Length\*Width\*Depth):

- |                          |                           |
|--------------------------|---------------------------|
| No. 1 ---- 15.2*2.8*3.2m | No. 8 ---- 13.3*2.38*3.3m |
| No. 2 ---- 12.5*1.8*2.8m | No. 9 ---- 6.5*2.2*3.5m   |
| No. 3 ---- 10.5*1.6*3.0m | No.10 ---- 6.5*2.2*2.8m   |
| No. 4 ---- 5.0*2.0*3.2m  |                           |
| No. 5 ---- 2.4*1.8*1.5m  |                           |
| No. 6 ---- 2.8*2.2*1.5m  |                           |
| No. 7 ---- 8.0*2.0*3.2m  |                           |



# Advantages

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

# Advantages

Self-owned ZAM (Zinc-Aluminum-Magnetic) material production workshop, 450,000 T/Y



Newly built ZAM(Zinc-Aluminum-Magnetic) material production workshop realizing full industry chain

# Advantages

*30GW delivery ability supported by Large Scale manufacturing lines*



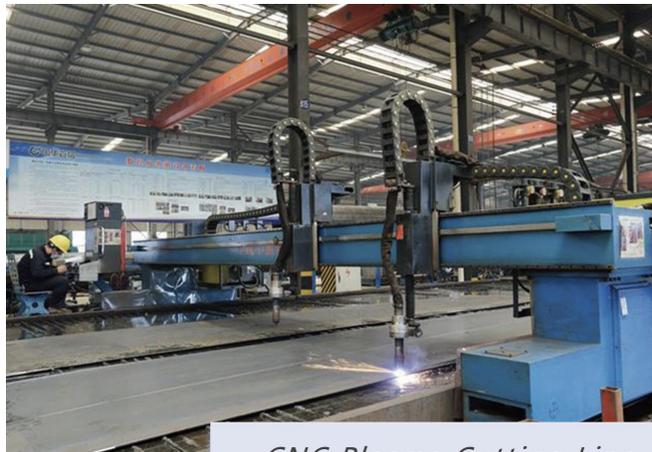
*Tube Production Lines \* 6*



*Roll forming Production lines \* 19*



*3200tons Bending Machine*



*CNC Plasma Cutting Line*



*Punching Line*



*Welding Line*

# PROJECTS IN BRAZIL- 4 Complex total 136MW



# TYPICAL PROJECTS



Fushan Gonghe 450MW | **China** | 2023  
Single Axis 1P Tracker



Neudamm 11 MW | **Namibia** | 2023  
Single-axis 1P Tracker



Henan Erjian 68MW | **China** | 2022  
Single-axis 2P Tracker



Bukhara 2MW | **Uzbekistan** | 2024  
Single Axis 1P Tracker



50MW | **Greece** | 2022 | Single-axis 1P Tracker



20MW | **USA** | 2022 | Dual-axis Tracker

**Create a World-Class Brand of  
Solar Mounting Structure**





# THANKS

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[www.sinosteelpole.com](http://www.sinosteelpole.com) (power)

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