

Risen Energy

RISEN ENERGY CO., LTD.

2023 Q1

www.risenenergy.com

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01 About Risen Energy

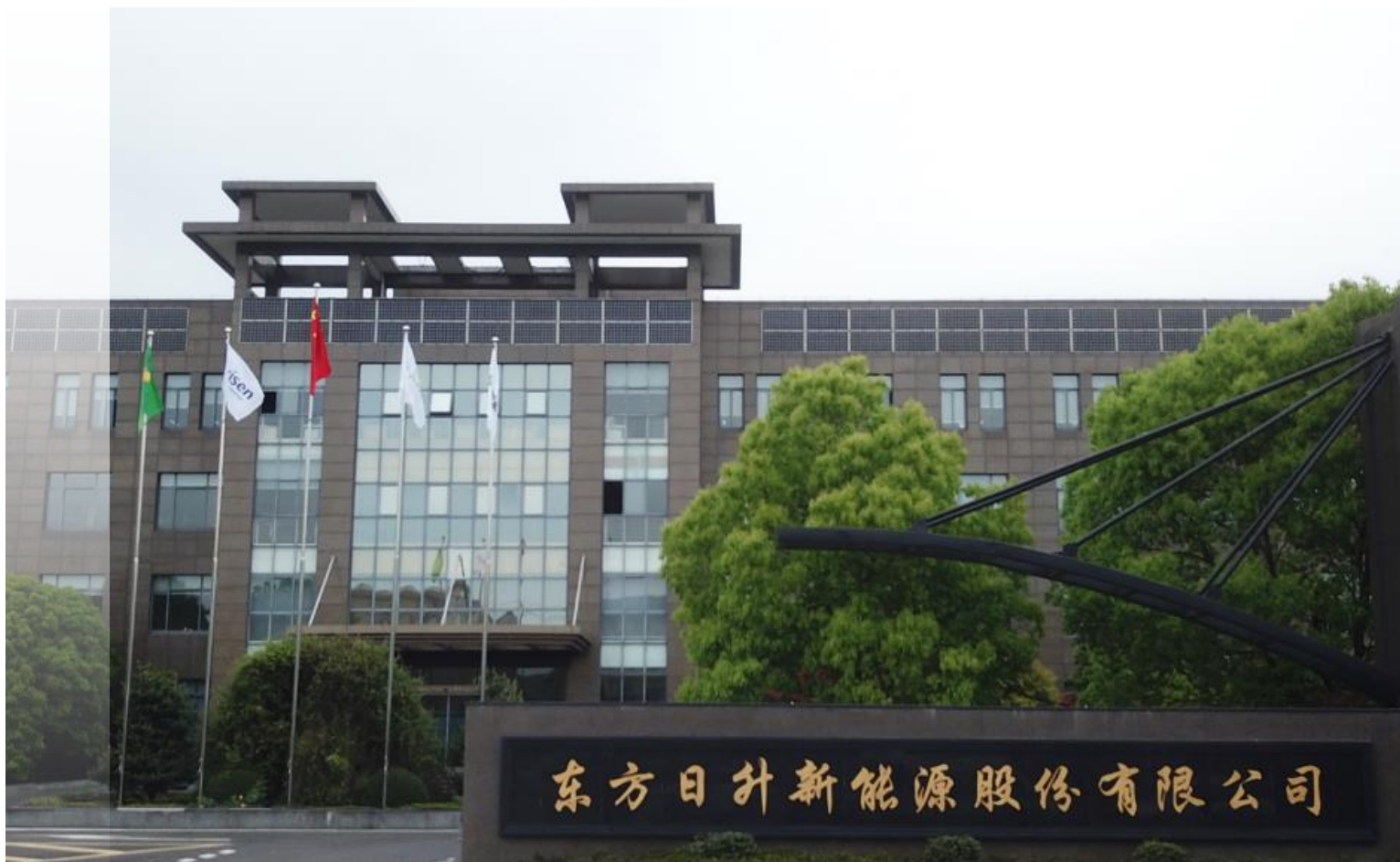
About Risen Energy

Global Networks

Global Shipments

Milestones

“Two New Strategies”



45GW

Capacity

Expected in 2023



10000+

Employees



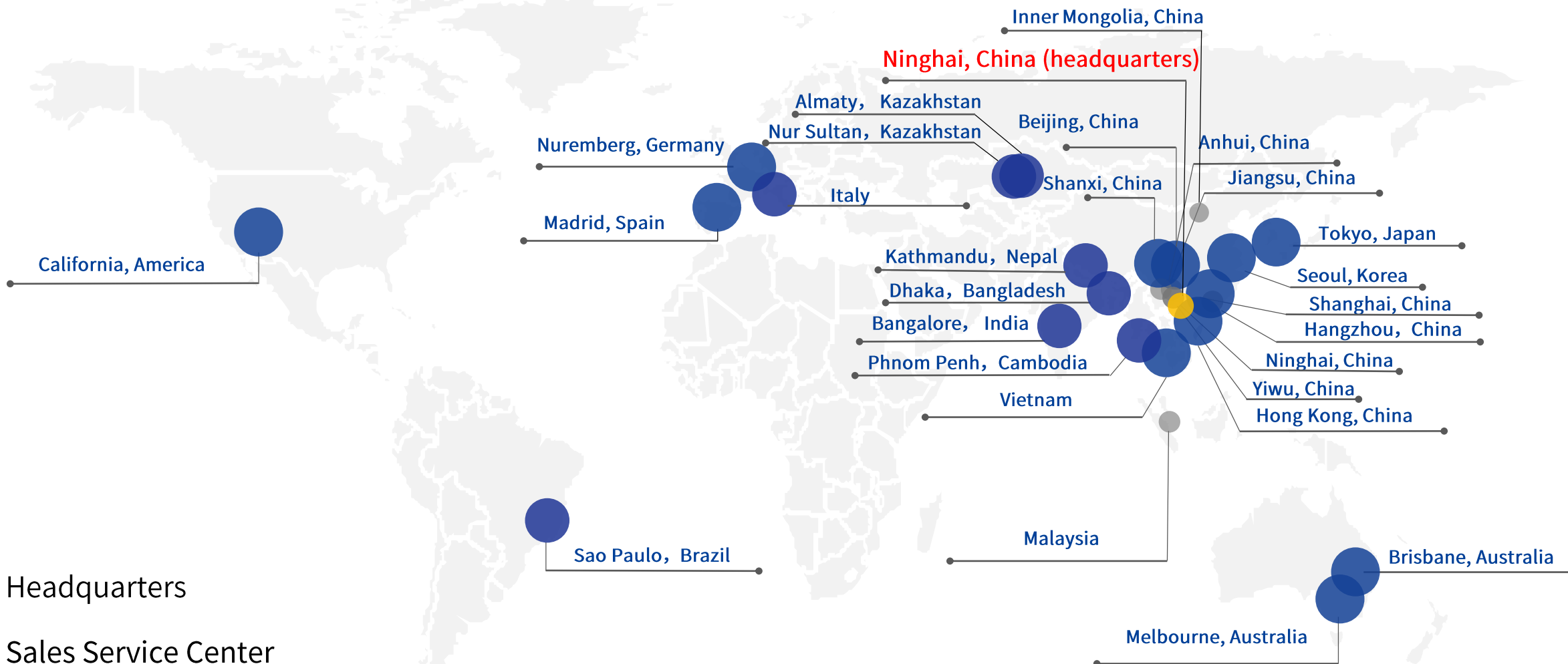
10000+

Clients



18.8Billion+

2021 Sales

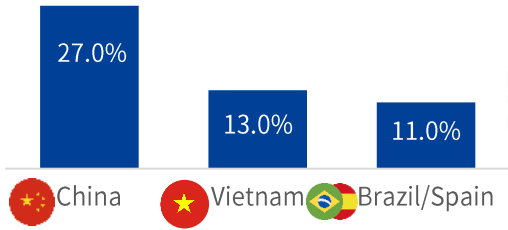


- Headquarters
- Sales Service Center
- Production Base

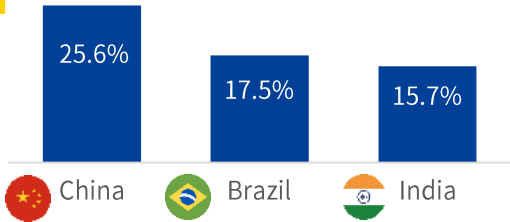
22 Sales Service Centers

6 Production Bases

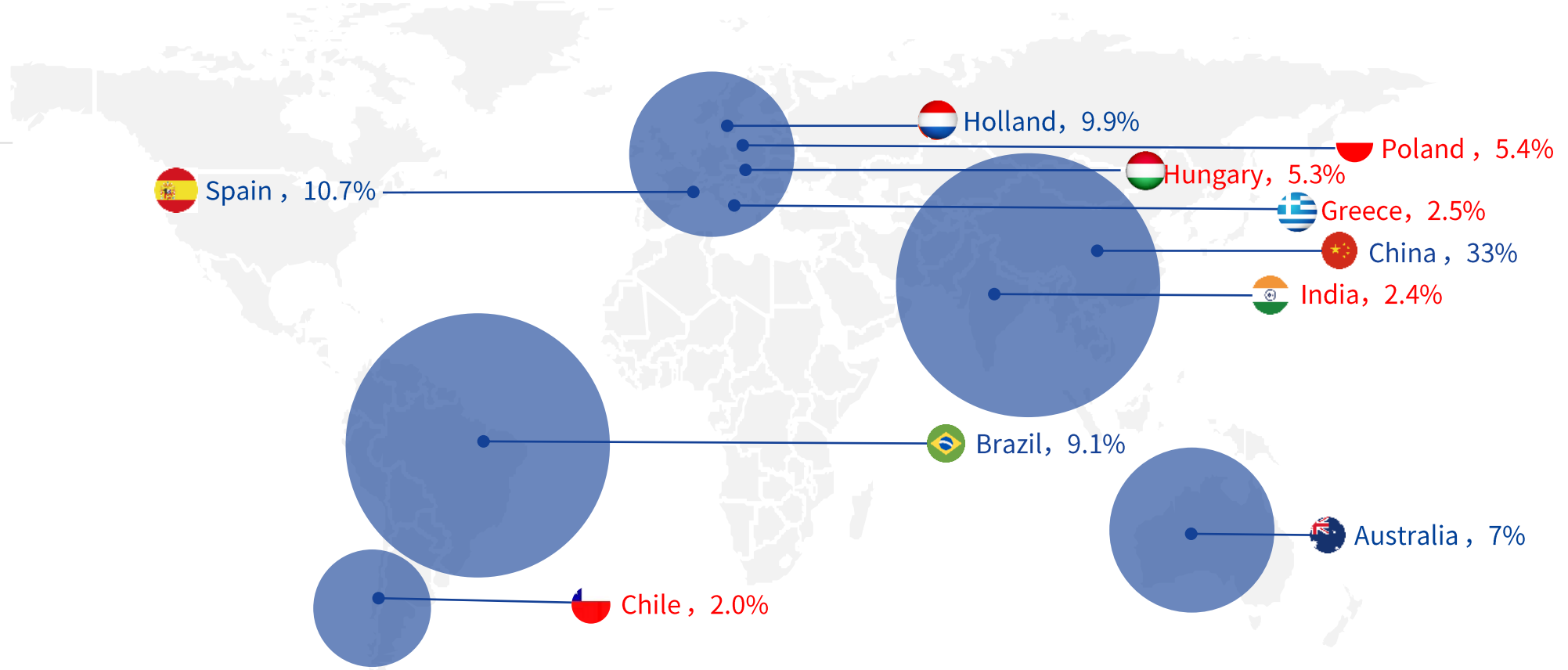
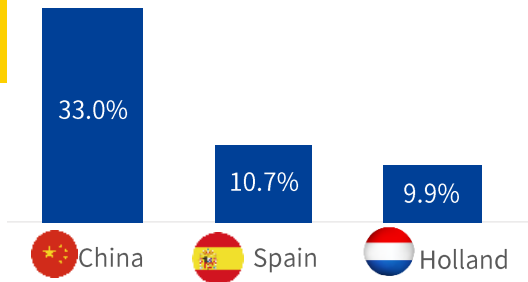
2020 Global Shipments Top 3



2021 Global Shipments Top 3



2022 Global Shipments Top 3



50 Countries and Regions. Products are widely distributed around Europe, America, South Africa and Southeast Asia.

1986

Founded in Ninghai, Zhejiang



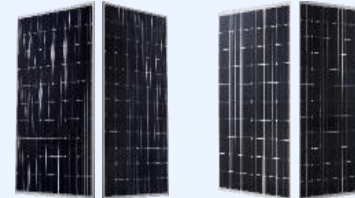
2002

Started Solar Business



2006

Started PV Module Business



2010

IPO in Shenzhen GEM Stock (300118)



2017

- Ranked “**Top 500** World Famous Brand of New Energy”
- “**Two New Strategies**”



2016

- Ranked “**Top 10** Global PV Module Manufacturer”
- Bloomberg **Tier 1** Company



Manufacturer	Global Shipments (MW)
Jinko	9,000
Canadian Solar	8,700
ah solar	8,600
Hanwha Q-Cells	8,000
Trina Solar	8,000
First Solar	7,800
Lamp	7,500
REC	6,500
Taiwan	6,500
SolarEdge	5,500
Shengwei	5,000
Shenghai	5,000
First Solar	2,500

2014

Photon Ranking **Top 2**



2020

- The World’s First 500W Module Shipment Company
- Ranked first in terms of HJT module shipments achieved



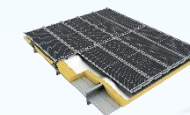
2021

- New PV Products --NewT@N
- First Wind Power EPC Project
- Launched PV Module With High Strength Alloy Steel Frame



2022

- Launch ultra-low carbon BIPV products
- “Risen” Household brand release
- 700Wp+ HJT Hyper-ion yield



Risen Energy will continue to develop “New Energy” and “New Material” in two major areas, forming a “PV Module + Energy Storage, New Material” business pattern.







02 Main Business

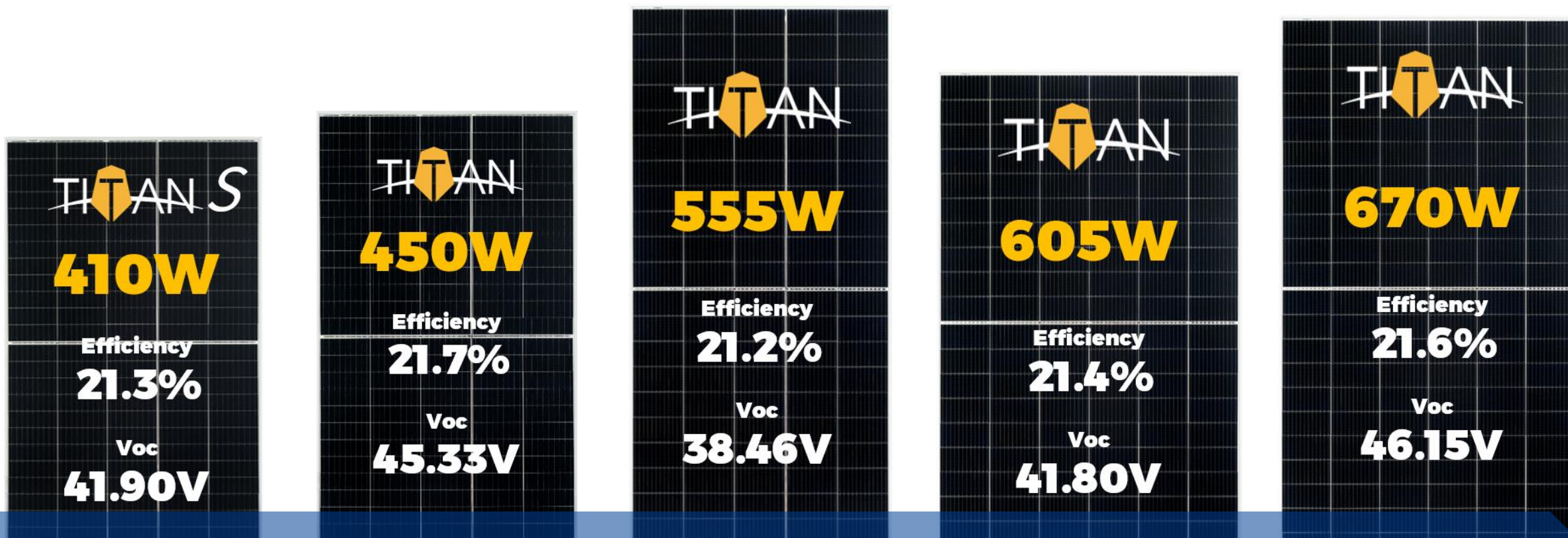
Main Business

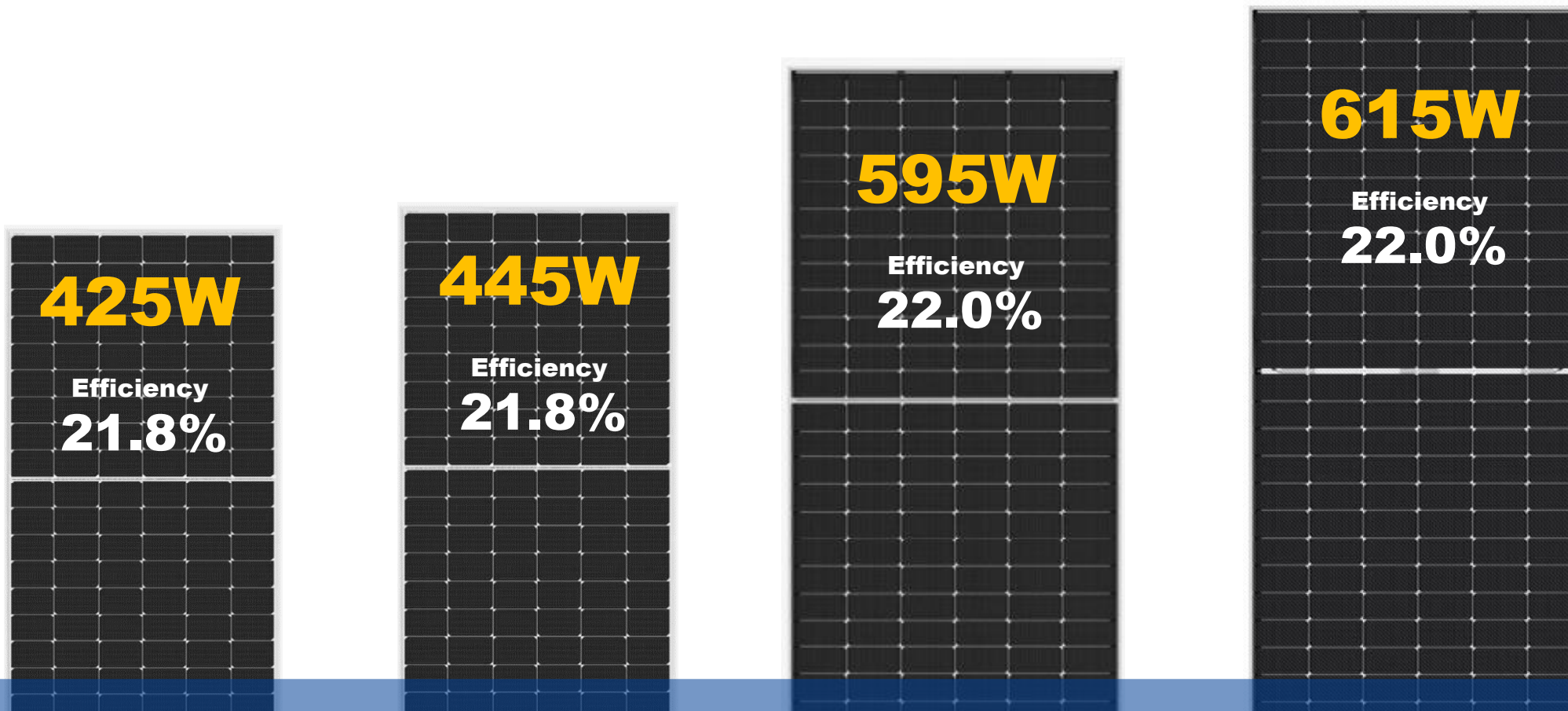
PV Products

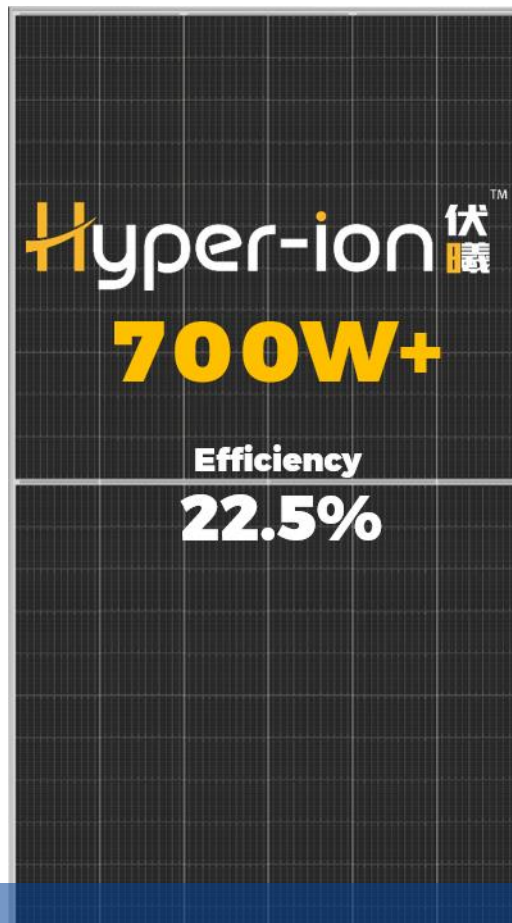
PV Power Station

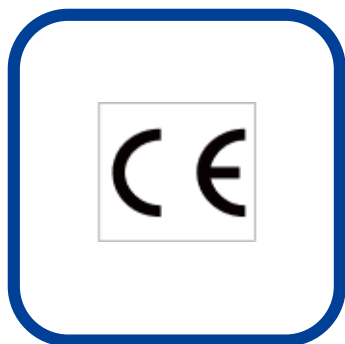
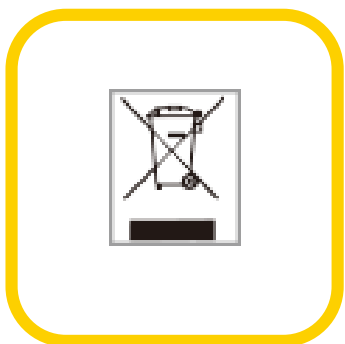
ESS Business

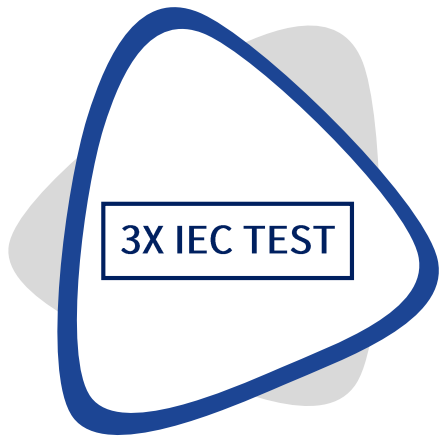
PV Industry Chain	PV Power Project	Solution Provider	LED
			
Cell, EVA/Back Sheet, Module	Residential, C&I, Utility Scale Project	Energy Storage Solution	Home Lighting
Steel Frame	Project Investment and Development	Smart Micro-grid Solution	Educational Lighting
Ribbon	Off Grid Projects	Smart Energy Platform	Landscape Lighting
Junction Box, Silicon material	EPC	PV Power Station Intelligent Solution	Municipal Lighting











3X IEC TEST



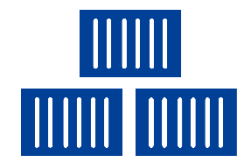
Product
Qualification Program



UNI 9177



Certisolis
Carbon Footprint



Plan

Design

Investment

Construction

Operation



100MW

Location: Henan, China Completed: 2016



99MW

Location: Ninghai, China Completed: 2017



40MW

Location: Qaraghandy, Kazakhstan Completed: 2018



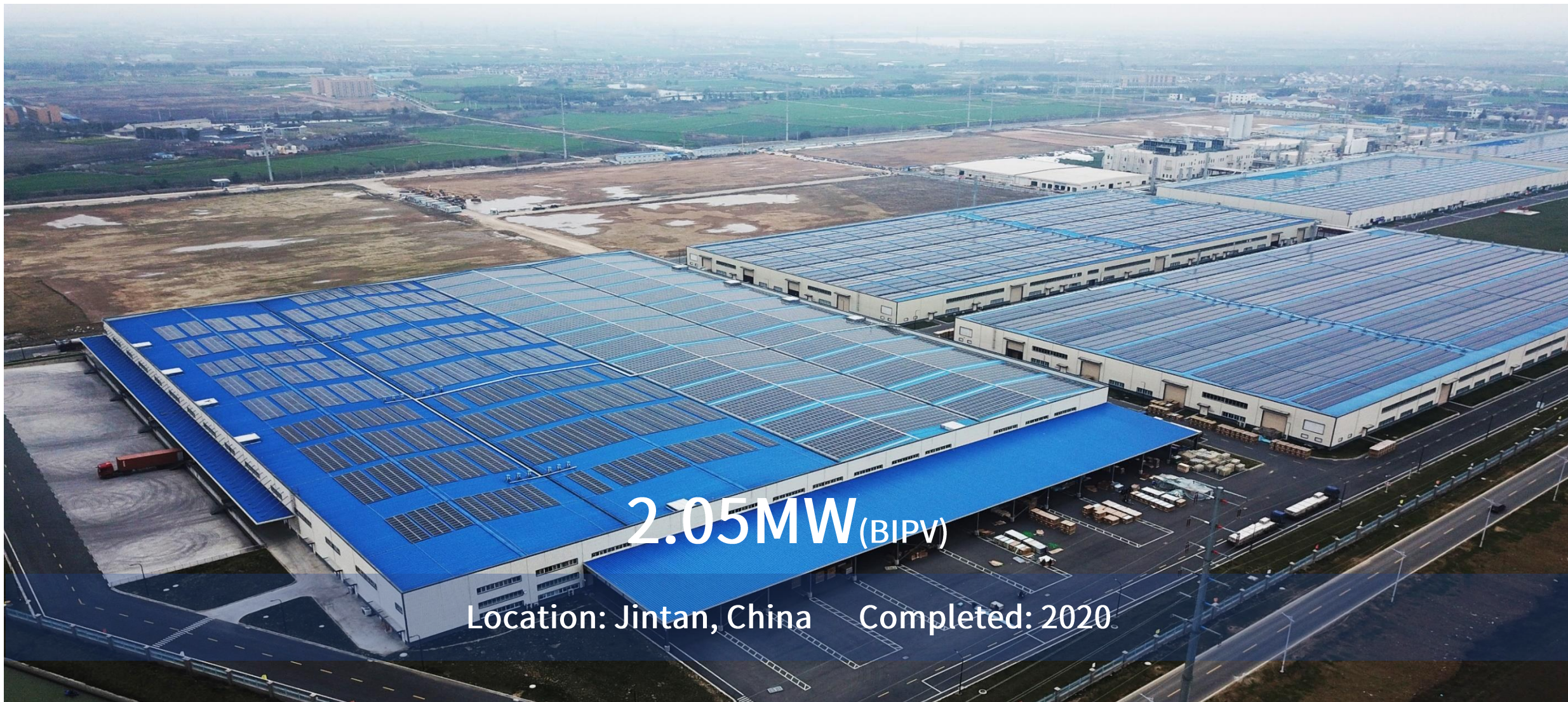
250MW

Location: Viet Nam Completed: 2020



50MW

Location: Glen Velida, Spain Completed: 2020



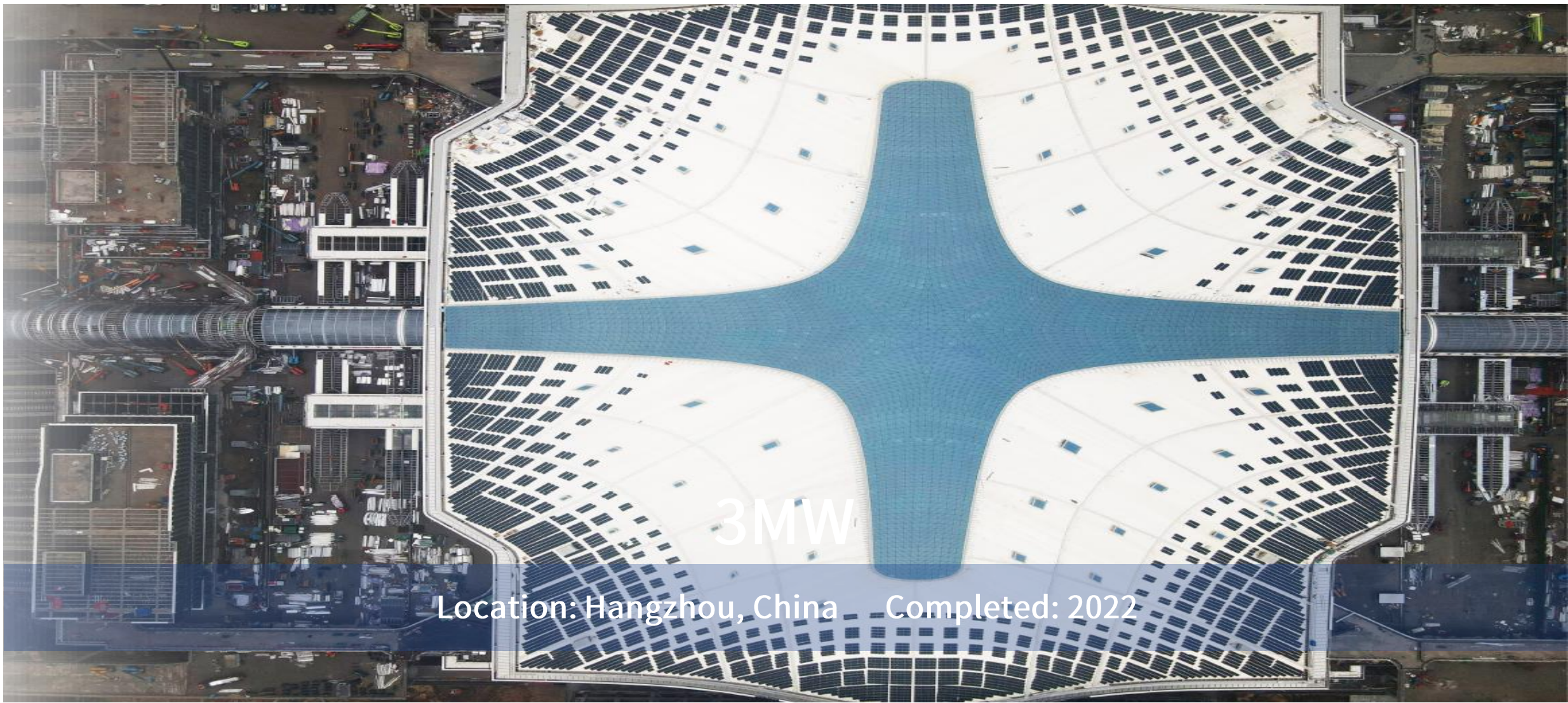
2.05MW (BIPV)

Location: Jintan, China Completed: 2020



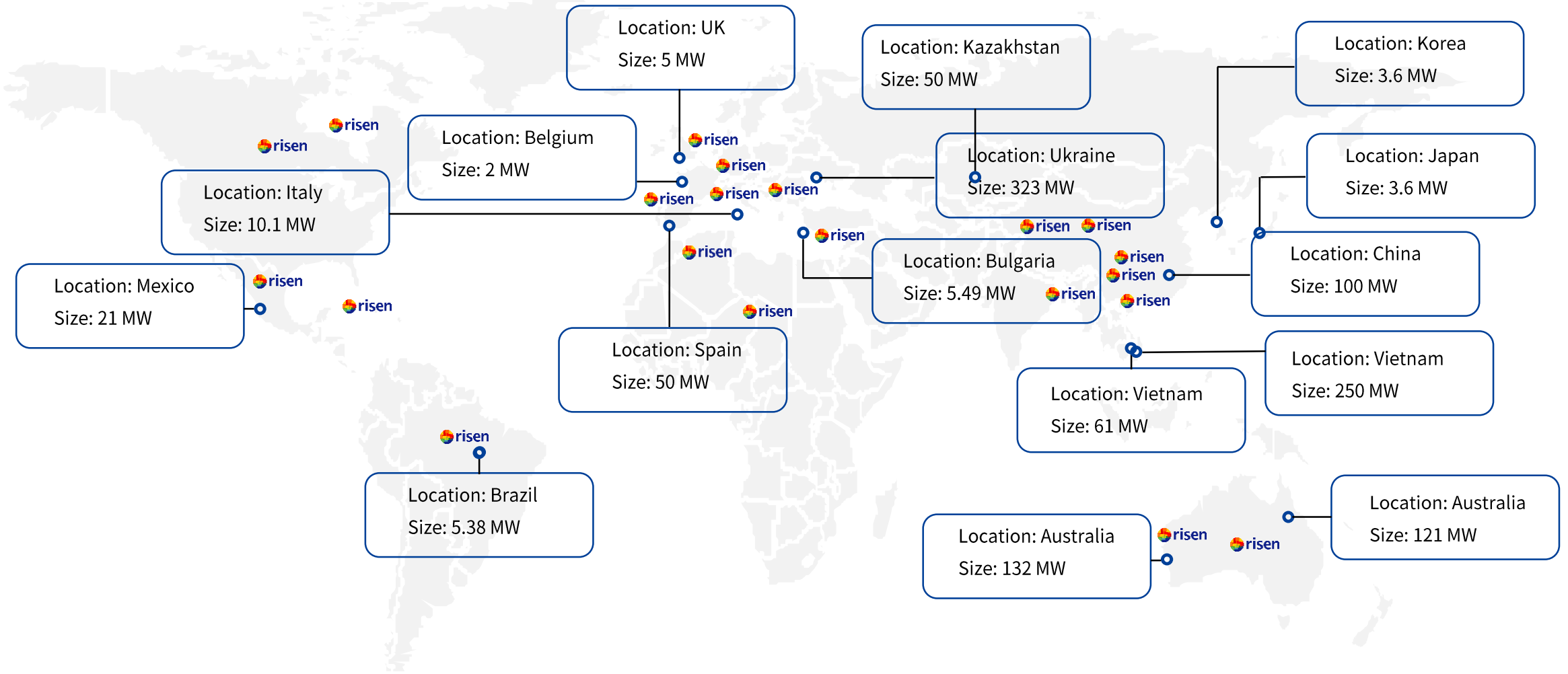
150MW

Location: Inner Mongolia, China Completed: 2021



3MW

Location: Hangzhou, China Completed: 2022





17years +
Li-ion Battery Expertise



8GWh+
ESS Integration



BATTERY

- ◆ 280Ah LFP Platform
- ◆ 50/44 NCM Platforms
- ◆ 120Ah LFP Platform
- ◆ 25Ah LFP Platform



C&I ESS

- ◆ 10kW/26.6-44.4kWh Solution
- ◆ 30kW/44.4-97.7kWh Solution
- ◆ 250kW/502kWh Solution



UTILITY ESS

- ◆ 1000kW/2132kWh Solution
- ◆ 1250kW/5483kWh Solution
- ◆ 2200kW/4874kWh Solution

250kW/502kWh C&I ESS



PEAK SHIFTING, BACKUP POWER

2132kWh@1000kW Large C&I and Utility ESS



PEAK SHIFTING, PEAK SHAVING

340kWhd@170kW Utility-Scale BESS Solution



ENERGY RESERVE, RENEWABLE SMOOTHING,
PEAK SHIFTING

5483kWh@1250kW 4hr Large Utility ESS



CAPACITY FIRING, RENEWABLE SMOOTHING

4874kWh@2200kW 2hr Large Utility ESS



T&D DEFERRAL, ANCILIARY SERVICES

2752kWh@2500kW Utility Scale liquid Cooling Solution



ENERGY RESERVE, RENEWABLE SMOOTHING,
PEAK SHIFTING

03 Our Advantages

Reliable Brand

Operation

Quality Control

CNAS Certified National Laboratory

Leading Technology

Ranked Tier 1

Table 3: Photovoltaic module manufacturers meeting BloombergNEF's Tier 1 criteria as of 1Q 2023

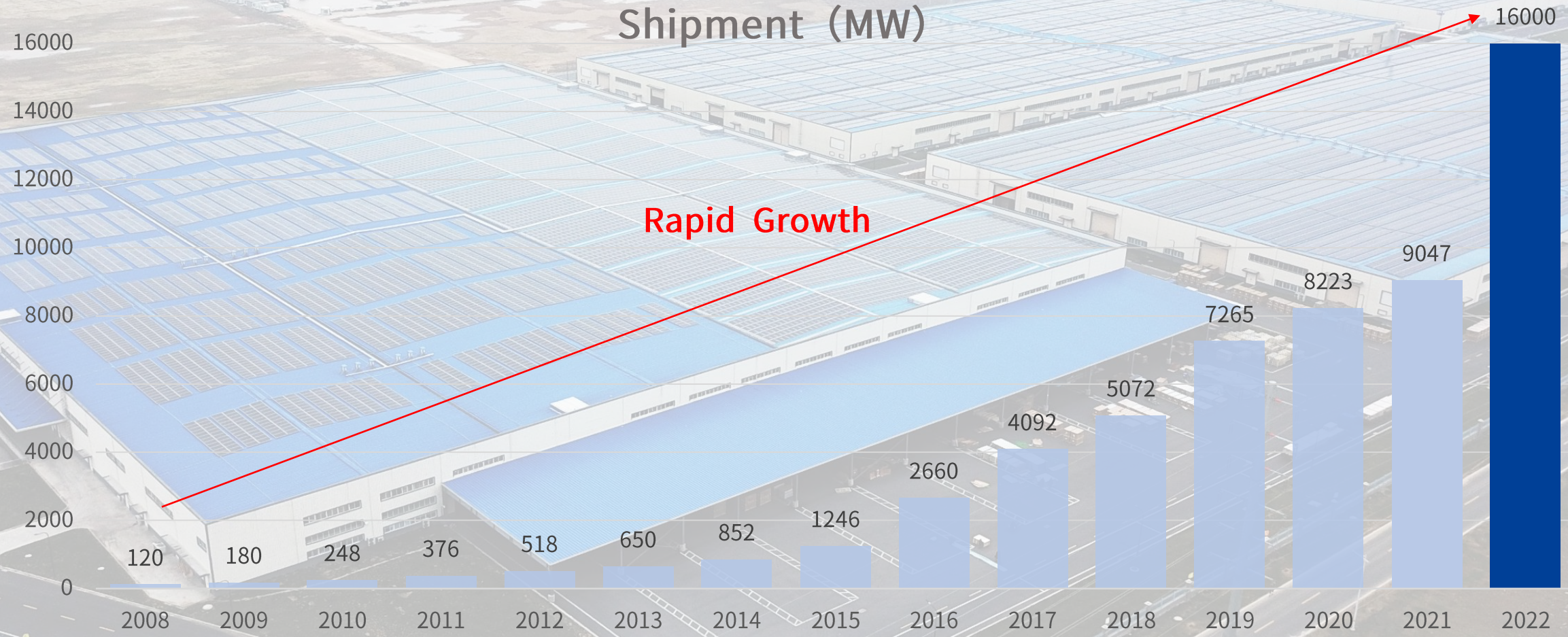
Firm/ brand	Annual module capacity, MW/year	Firm/ brand	Annual module capacity, MW/year
ZNShine*	10,000	Leapton Energy	2,000
Yingli*†	11,650	Jolywood*	3,000
Waaree*	9,000	Jinneng/ Jinergy	4,000
VSUN Solar*	3,800	Jinko*†	70,000
Ulica Solar	3,000	Jetion	2,500
Trina*†	60,000	JA Solar*†	51,000
Tongwei	14,000	Heliene*†	950
Suntech	15,000	Hanwha Q-Cells*†	12,400
Sunpro Power	2,000	Hansol Technics	600
Sumec/ Phono Solar*	4,000	First Solar*†	11,200
Solar-Fabrik	50	Exiom Group	700
Sharp	210	ET Solar Inc*	2,000
Seraphim	7,750	Eging*	10,000
Risen Energy*	25,000	DMEGC*	7,500
Renesola	3,000	Chint/ Astronergy*†	22,000
Recom†	1,200	Canadian Solar	31,400
Neo Solar Power/ URE	1,800	Boviet Solar*	1,500
Maxeon*	10,100	Anhui Huasun*	2,700
Luxen Solar	2,200	AE Solar*	1,600
Longi*†	80,000	Total	500,810

Source: BloombergNEF Note: Methodology [here](#). * denotes a company for which technical due diligence reports are available from PV Evolution Labs, PVEL. Contact Tristan.erion-lorico@pvel.com. † denotes manufacturers upon which RETC has recently conducted or is conducting technical due diligence. Contact info@retc-ca.com for details. Brands are shown in reverse alphabetical order to avoid giving the impression that position in the list is significant. Companies can download the dataset of financings [here](#).

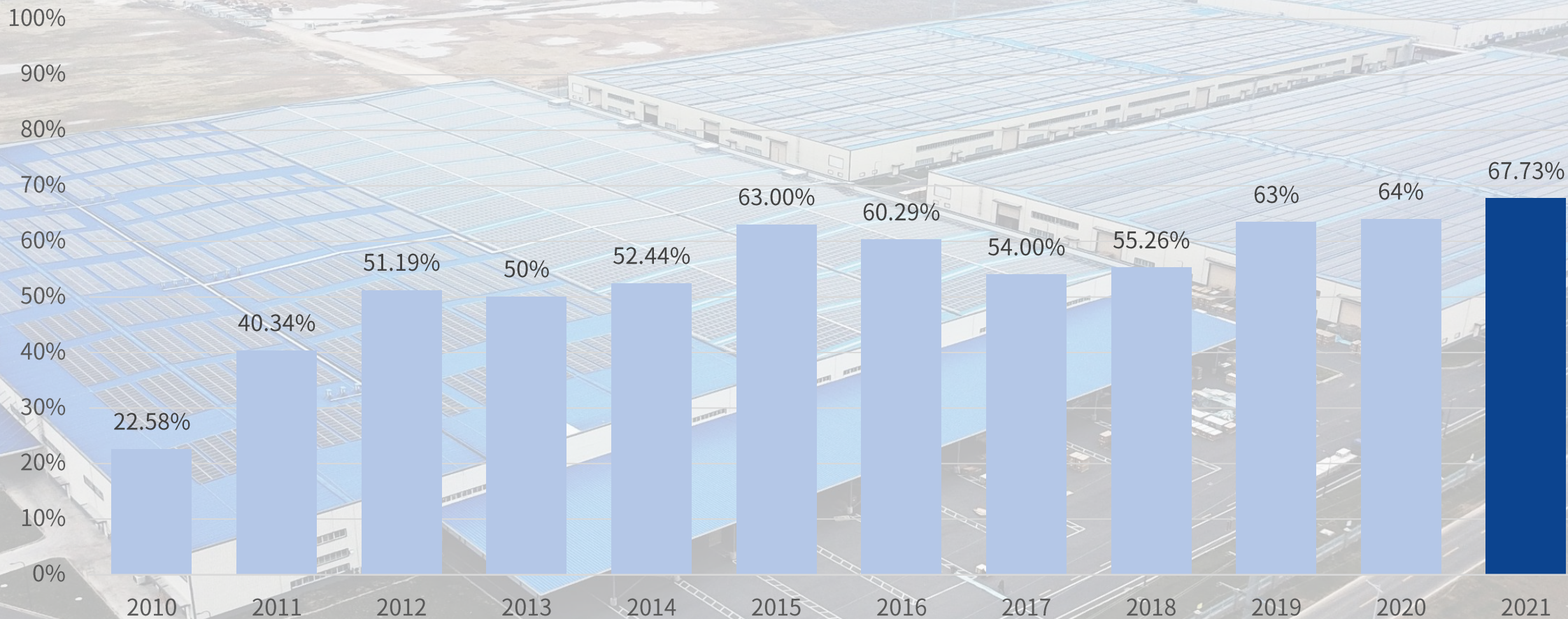
Shipment

Shipment (MW)

Rapid Growth

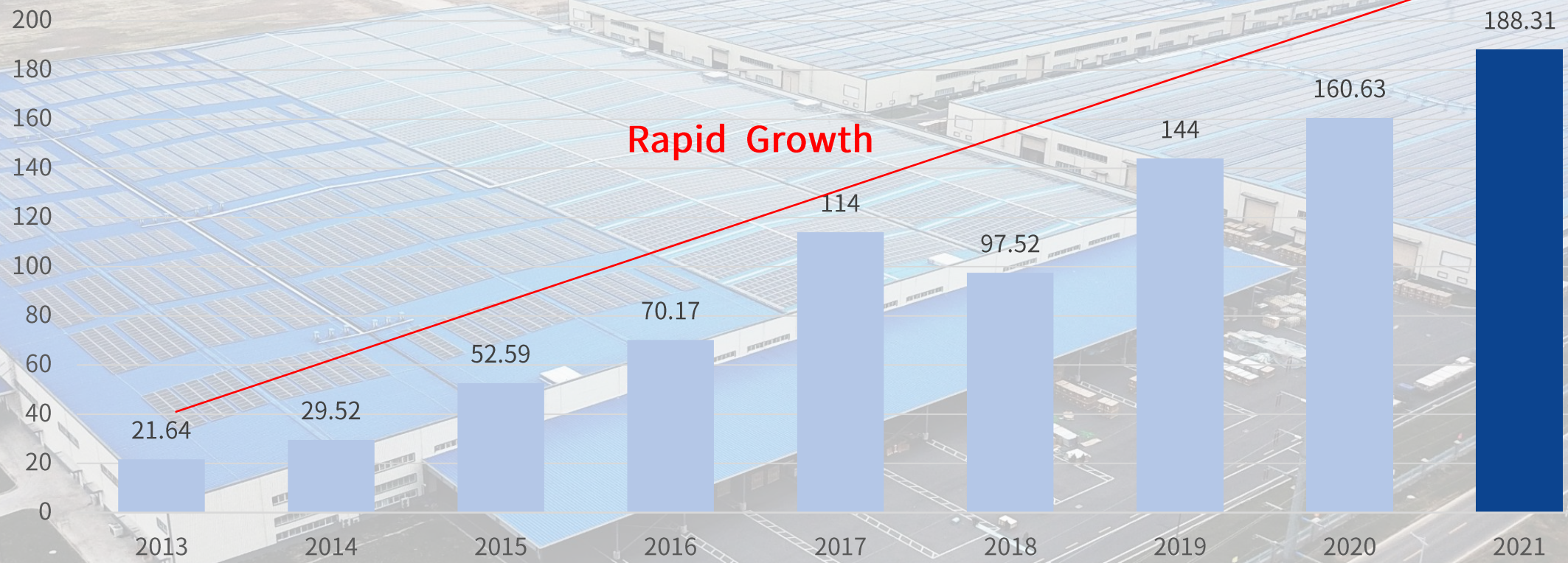


Debt Ratio



Operation Revenue

Operation Revenue (100 million RMB)





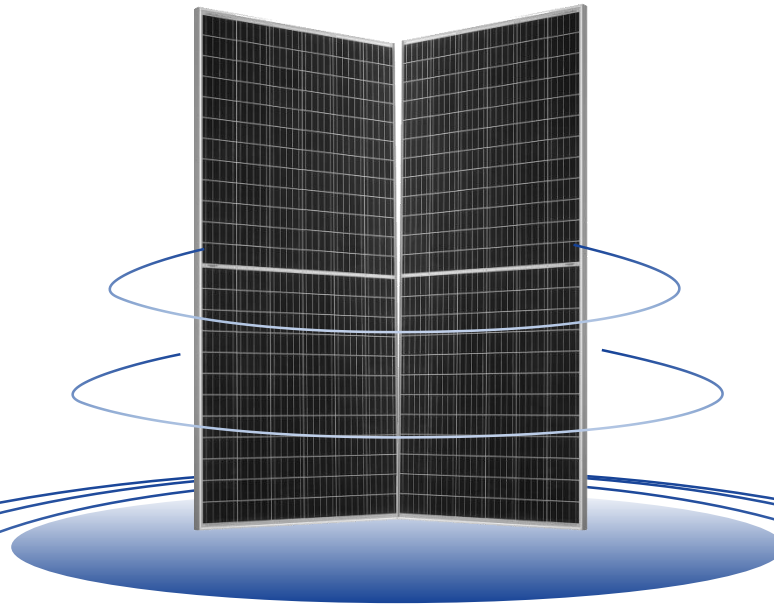
Supplier Quality Management

- Annual audit and supervision
- Daily assessment
- Major abnormal improvement
- New Material Introduction and Change Management



Quality Risk Management

- Reliability control
- Standardization and unification
- System construction
- Cross-regional auditing
- Quality and performance management



Global Customer Service

- Serve customers
- Deal with complaints
- Improve customer relationship
- Investigate customer satisfaction
- Giving feedback against customers' problems
- Drive internal improvement

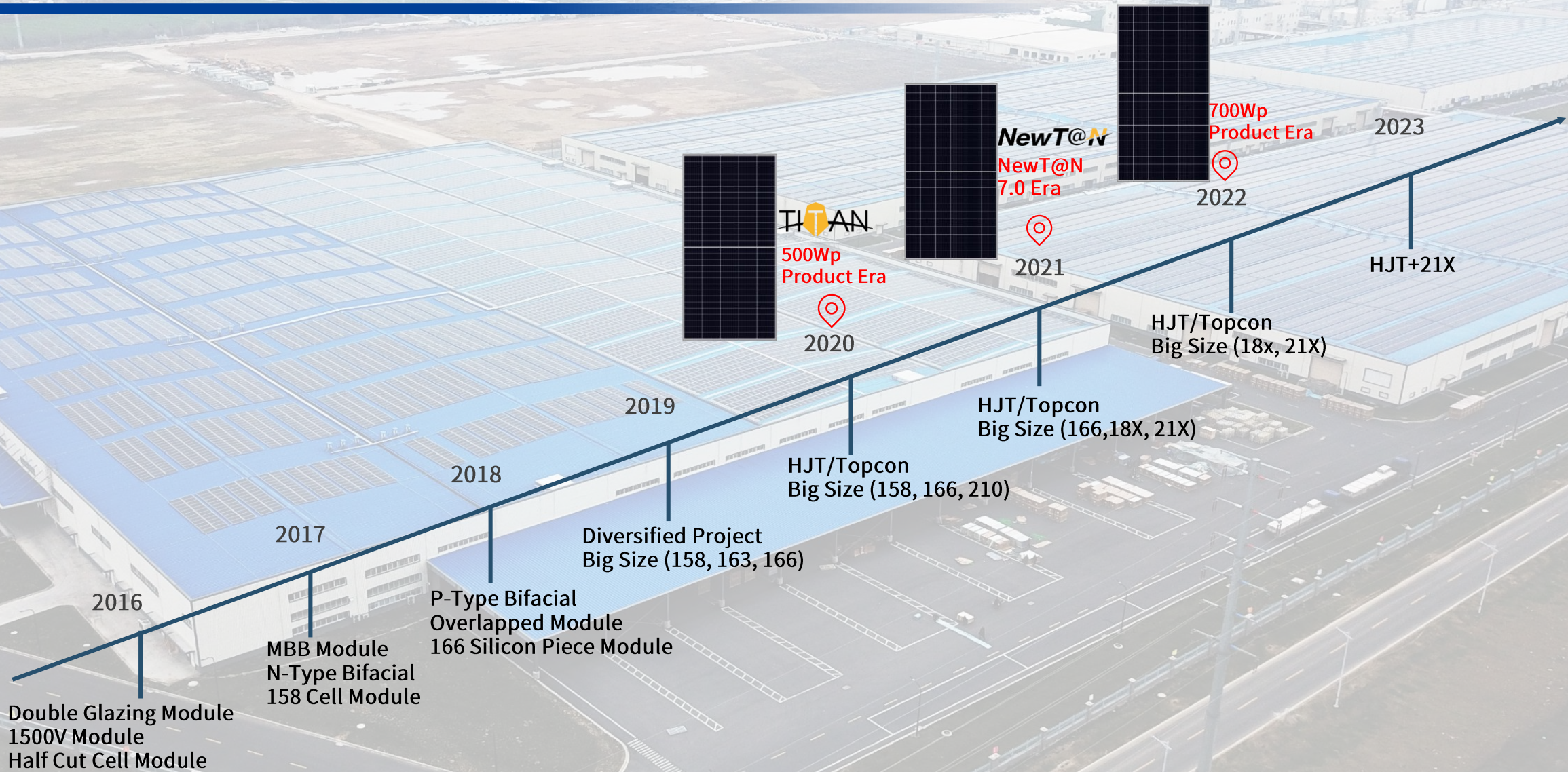


Product Quality Control

- Monitor production
- Promote quality management



Low opening voltage brings higher string power and effectively reduces LCOE



04 Corporate Social Responsibility

Social Responsibility

Public Welfare

Employee Benefits

Corporate Culture



2021 Risen Energy
Annual Corporate Social Responsibility Report



EcoVadis Sustainability Rating
Bronze Award



The world is lighten up
with Risen Energy!



**Donate
10 Million RMB**



**Donate
500 Protective Suits**



**Donate 143700 Face Masks
11300 Disinfecting Wipe**



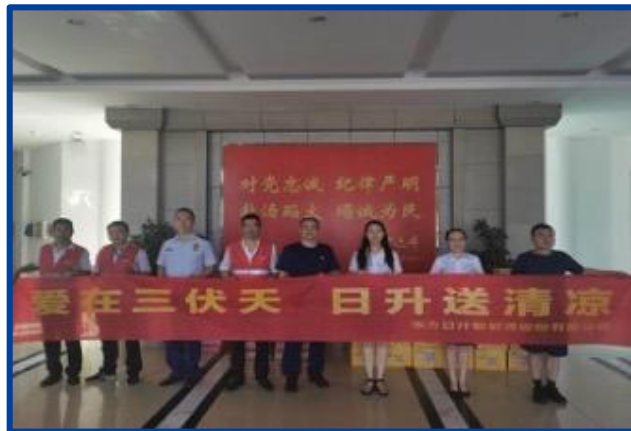
Care the Elders



Clean the Community Environment



Blood Donation



Community Services



Fighting Covid-19



New Employee Training



Devil Training



Cadres Training



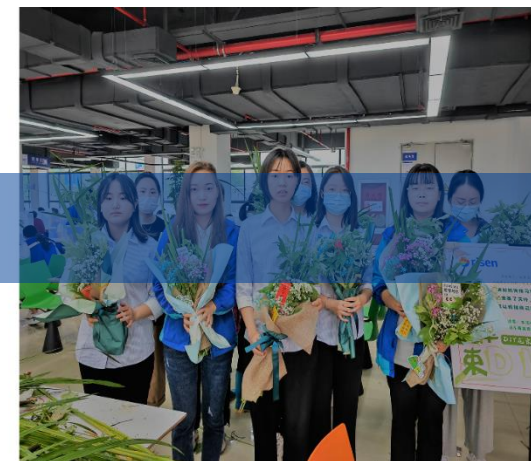
Weekly Training



Outward Bound



Lean Think Production Management Training



Recreational-Activities



Festival Events



Risen Energy Cinema



Risen Energy Talent Show



Maternal Room



Risen Energy Magazine

Enrich the culture of employees and record the work and life in Risen Energy. There is no limit in the form of artistic creation to solicit the articles among the whole company based on different themes in each issue of the magazine.





The Power of Rising Value

Thanks for Watching!

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