

Risen Energy

RISEN ENERGY CO., LTD.

2022 Q2

www.risenenergy.com

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**About
Risen Energy**

Main Business

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01

About Risen Energy

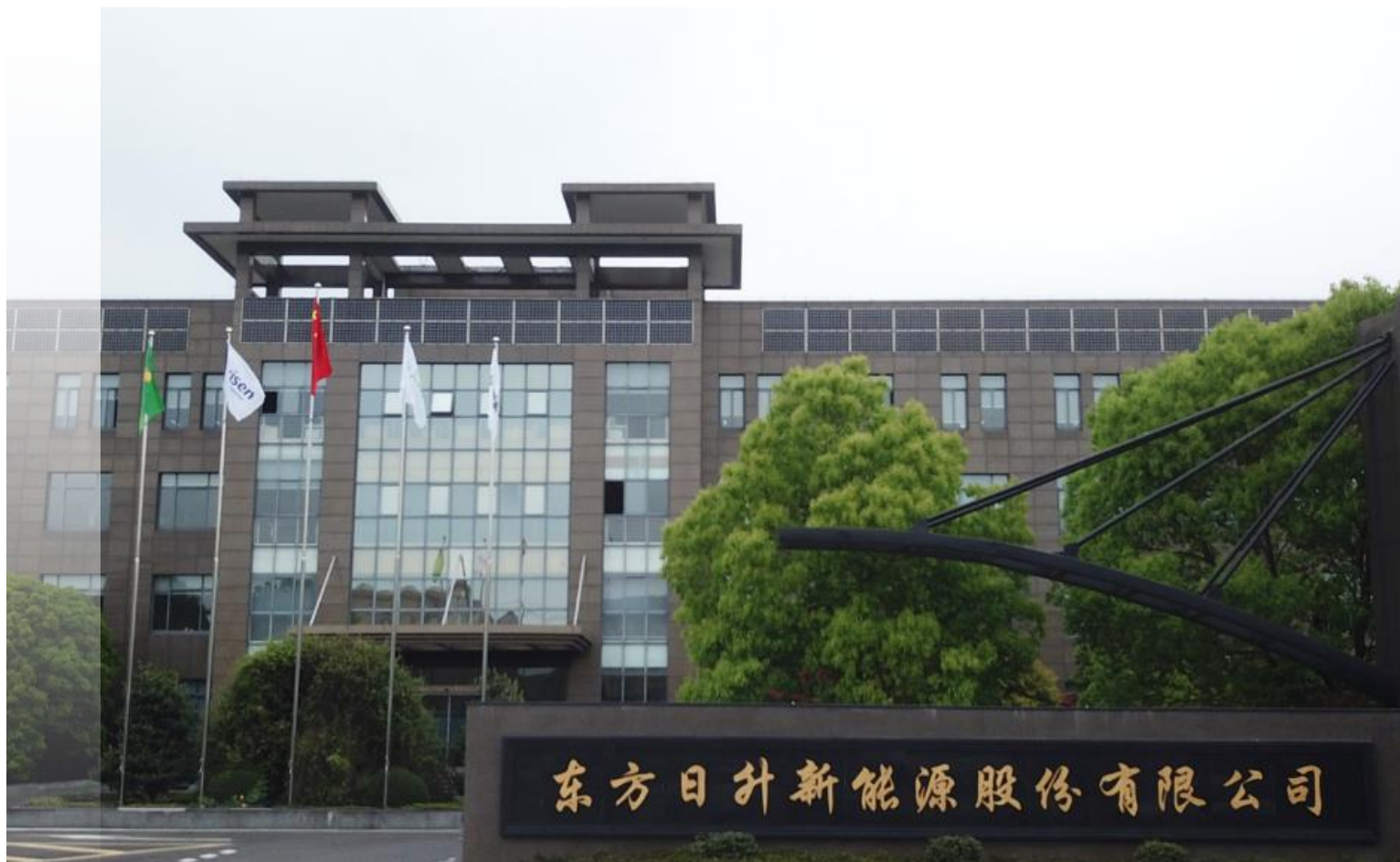
About Risen Energy

Global Networks

Global Shipments

Milestones

“Two New Strategies”



30GW
Capacity

Expected in 2022



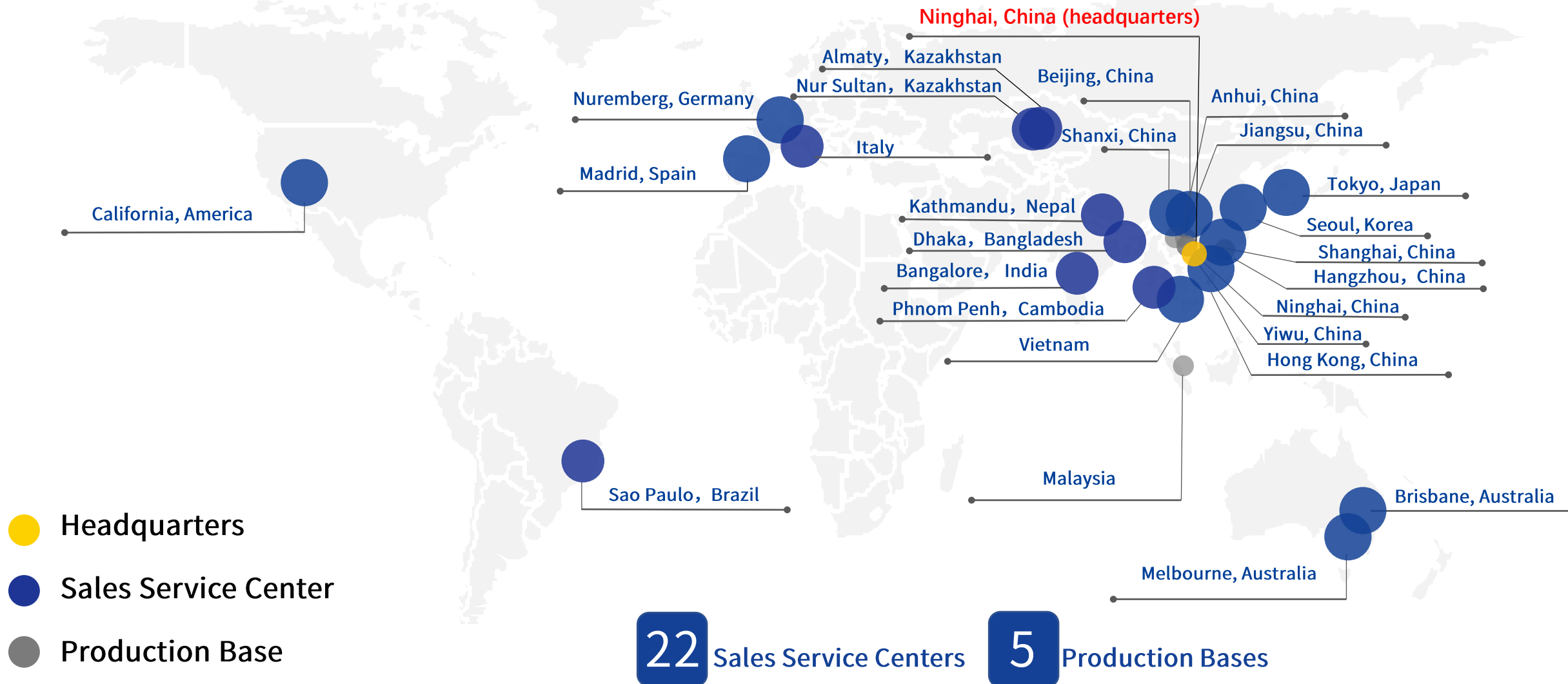
10000+
Employees



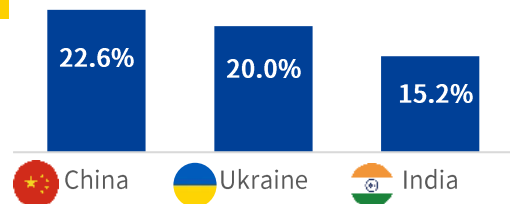
10000+
Clients



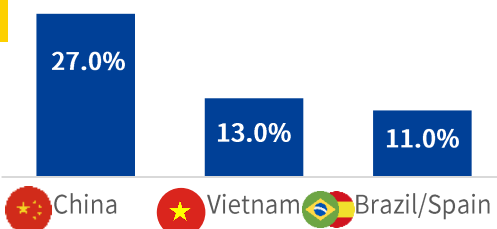
18.8Billion+
2021 Sales



2019 Global Shipments Top 3



2020 Global Shipments Top 3

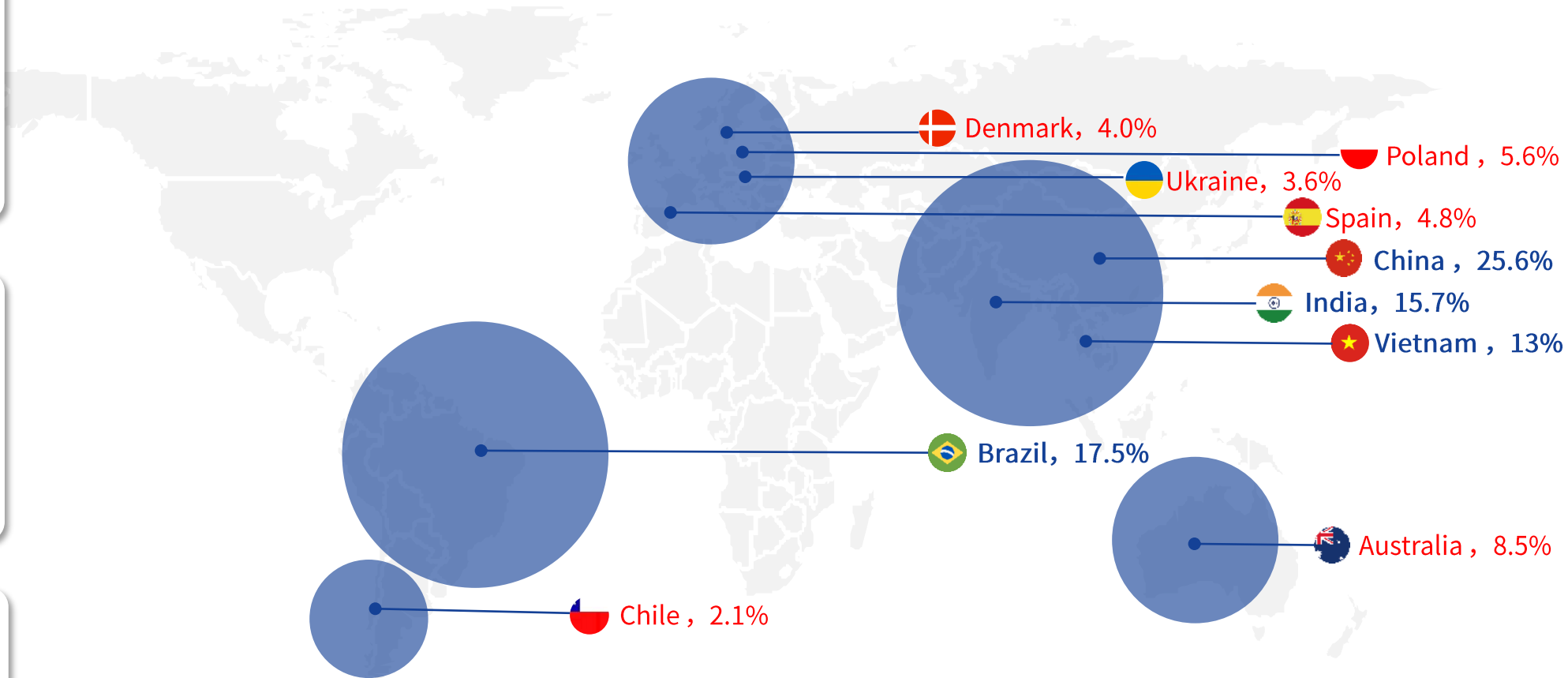


2021 Global Shipments Top 3



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



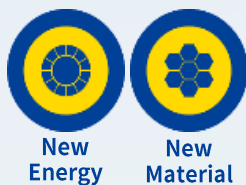
2010

IPO in Shenzhen GEM Stock (300118)



2017

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



2015

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



Rank	Company	Value
1	JinkoSolar	10,000
2	Canadian Solar	9,700
3	Yuh Solar	8,800
4	Trina Solar	8,000
5	First Solar	7,500
6	Longi	7,000
7	REC	6,500
8	Shengwei	6,000
9	Shengwei	5,500
10	Shengwei	5,000
11	Shengwei	4,500
12	Shengwei	4,000

2014

Photon Ranking **Top 2**



2020

- The World's First 500W Module Shipment Company
- 14.1GW Capacity



Rank	Company	Value
1	Longi	10,000
2	Canadian Solar	9,700
3	Yuh Solar	8,800
4	Trina Solar	8,000
5	First Solar	7,500
6	Longi	7,000
7	REC	6,500
8	Shengwei	6,000
9	Shengwei	5,500
10	Shengwei	5,000
11	Shengwei	4,500
12	Shengwei	4,000

2021

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



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

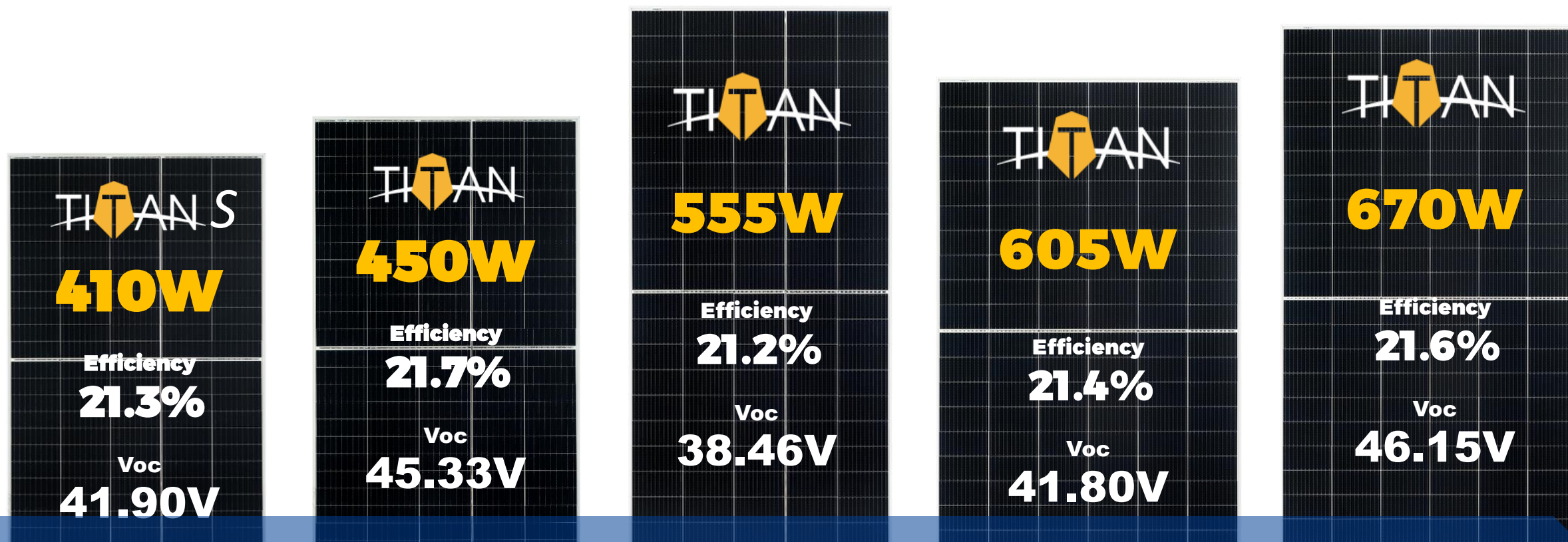
Main Business

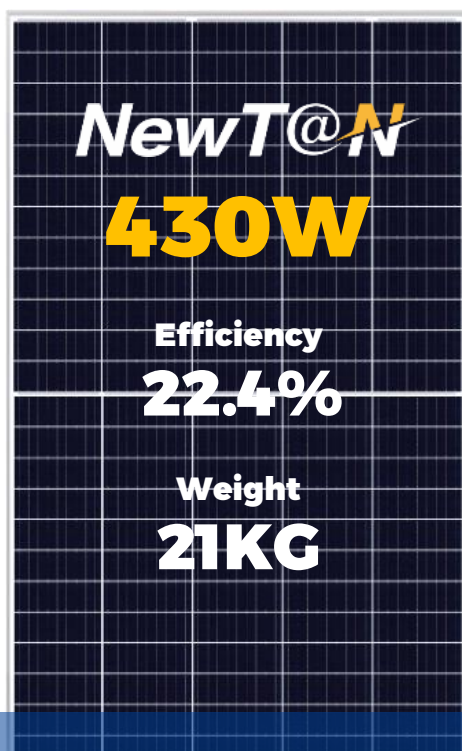
PV Products

PV Power Station

ESS Business

PV Products	PV Power Project	Solution Provider	New Material	LED
				
Cell, EVA/Back Sheet, Module	Residential, C&I, Utility Scale Project	Energy Storage Solution	Anti-PID EVA Film	Home Lighting
Aluminum	Project Investment and Development	Smart Micro-grid Solution	White EVA Film	Educational Lighting
Ribbon	Off Grid Projects	Smart Energy Platform	PO Film	Landscape Lighting
Junction Box	EPC	PV Power Station Intelligent Solution	Reflective Film	Municipal Lighting





Hyper-ion

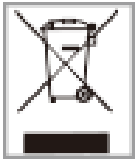
700W+

Efficiency

22.5%



ISO9001
ISO14001
OHSAS18001
IEC TS 62941





3X IEC TEST



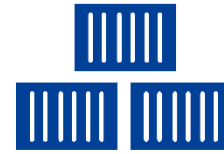
**Product
Qualification Program**



UNI 9177



**Certisolis
Carbon Footprint**



Plan

Design

Investment

Construction

Operation



100 MW

Location: Henan, China Completed: 2016



99 MW

Location: Ninghai, China Completed: 2017



40 MW

Location: Qaraghandy, Kazakhstan Completed: 2018



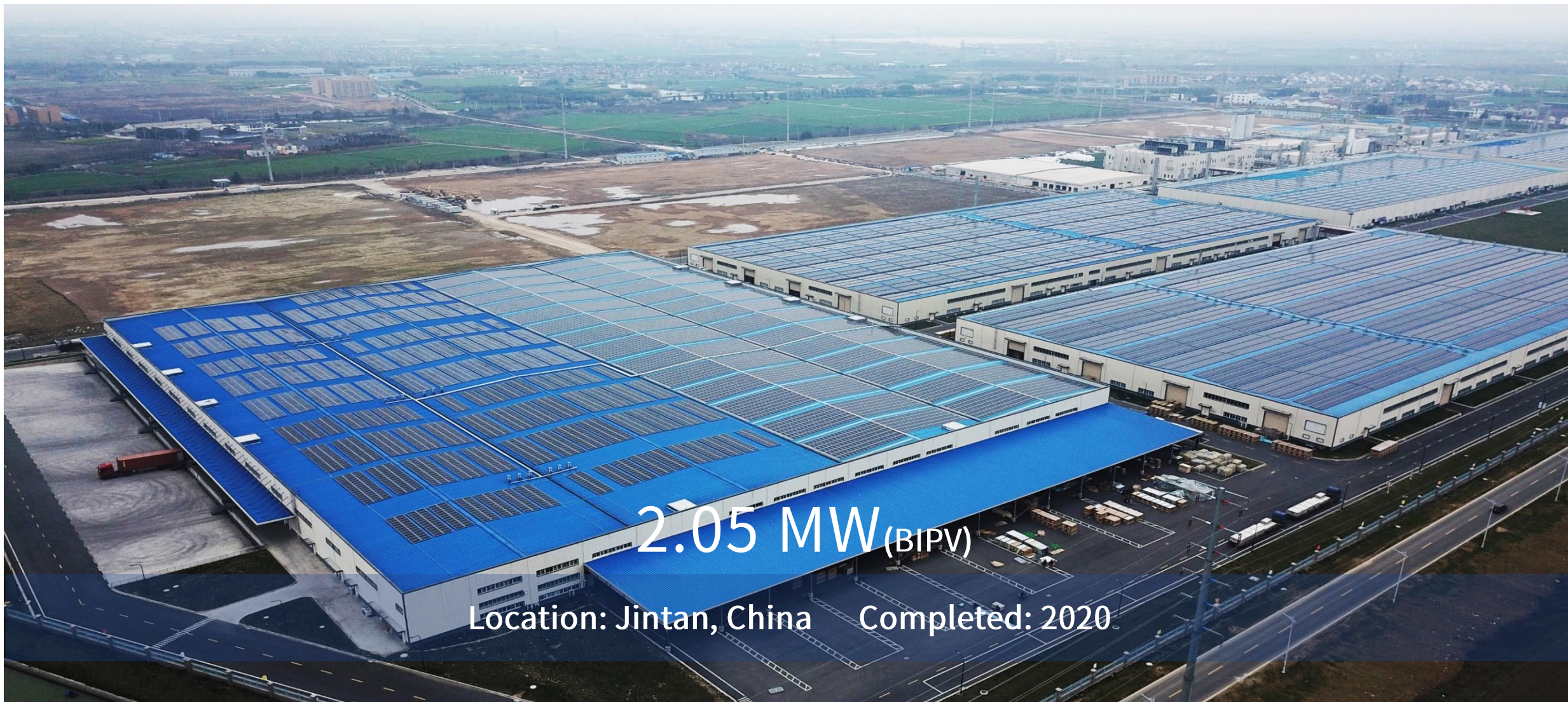
250 MW

Location: Viet Nam Completed: 2020



50 MW

Location: Glen Velida, Spain Completed: 2020



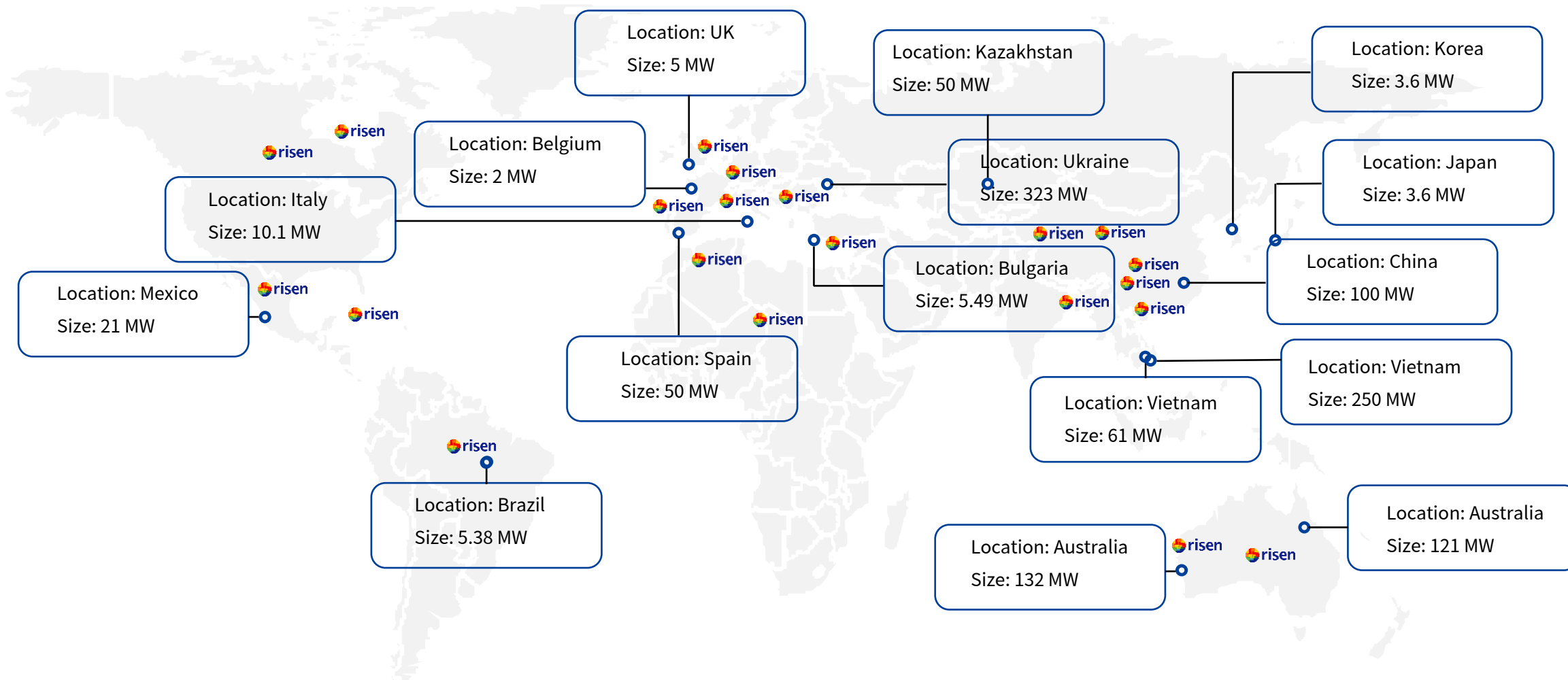
2.05 MW_(BIPV)

Location: Jintan, China Completed: 2020



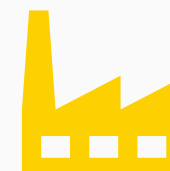
150MW

Location: Inner Mongolia, China Completed: 2021





**16 years +
Li-ion Battery Expertise**



**5GWh+
ESS Integration**



BATTERY

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



RESIDENTIAL ESS

- ◆ All-in-one Product
- ◆ Hybrid Solutions
- ◆ AC-coupled Solution
- ◆ PV+S Solution



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

All-in-one



Hybrid Solution



10.24kWh Batt. Pack



Hybrid Inverter

AC-Coupled Solution



10.24kWh Batt. Pack



3-5kW Storage Inverter

PV+S Solution



10.24kWh Batt. Pack



3-5kW Storage Inverter

HV Solution



HV Batt. Pack



Compatible Inverters



3-5kW PV Inverter



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 FIRMING, 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

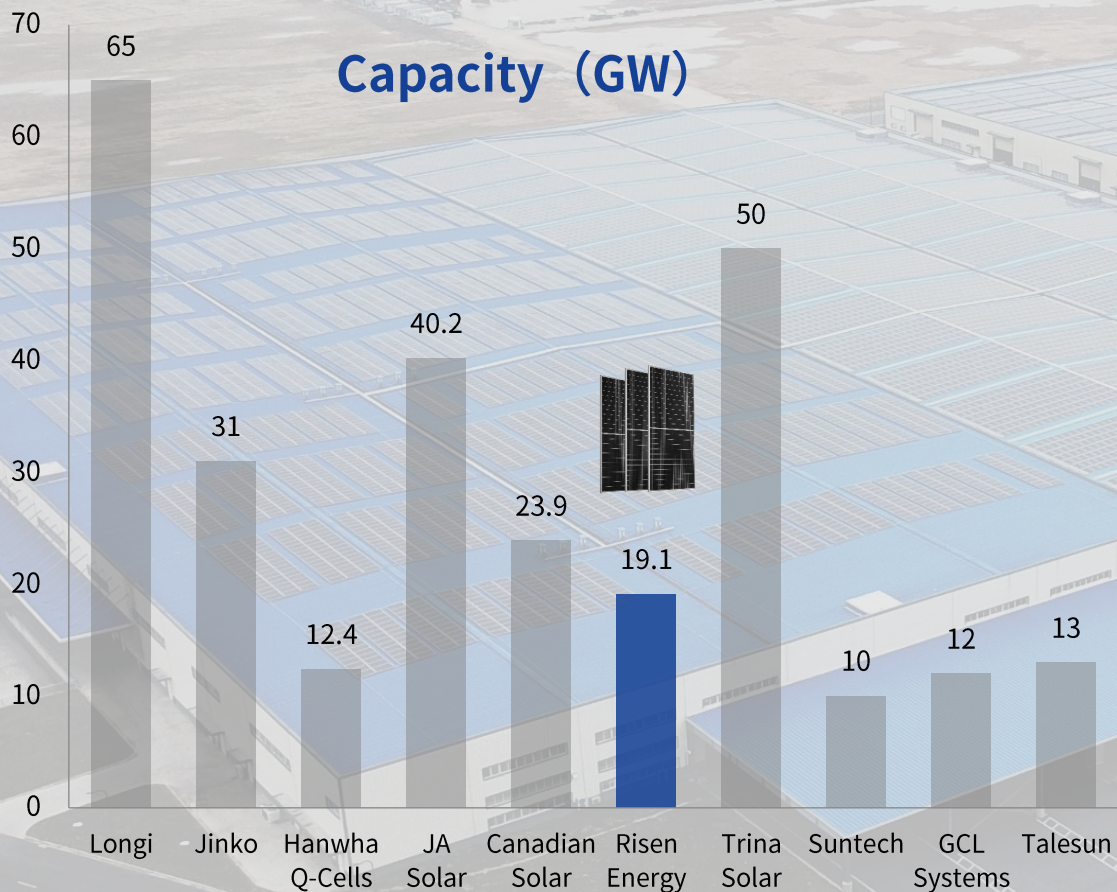
03

Our Advantages

Reliable Brand
Operation
Quality Control
CNAS Certified National Laboratory
Leading Technology

Ranked Tier 1

Capacity (GW)



Ranked Tier 1

Table 3: Photovoltaic module manufacturers meeting BloombergNEF's Tier 1 criteria as of 1Q 2022

Firm/ brand	Annual module capacity, MW/year	Firm/ brand	Annual module capacity, MW/year
Waaree*	4,000	Jolywood	3,000
VSUN Solar*	2,600	Jinneng/ Jinergy	3,000
Ulica Solar	1,200	Jinko*	31,000
Trina Solar*	50,000	Jetion	2,500
Talesun*	13,000	JA Solar*	40,200
Suntech*	10,000	Hyundai	1,350
SunPower/ Maxis*	4,400	HT-SAAE*	3,000
Sumec/ Phono Solar	3,000	Hanwha Q-Cells*	12,400
Sharp	210	Hansol Technics	600
Seraphim / SEG*	7,750	First Solar*	8,000
S-Energy	530	Exiom Group	700
Risen Energy*	19,100	ET Solar Inc*	2,000
Renesola Yixing	2,500	DMEGC*	5,000
Recom	1,100	Chint/ Astronergy*	10,000
Neo Solar Power/ URE	1,800	Canadian Solar	23,900
Longi*	65,000	Boviet*	1,500
Leapton Energy	2,000	AE Solar	1,525
Total		336,865	

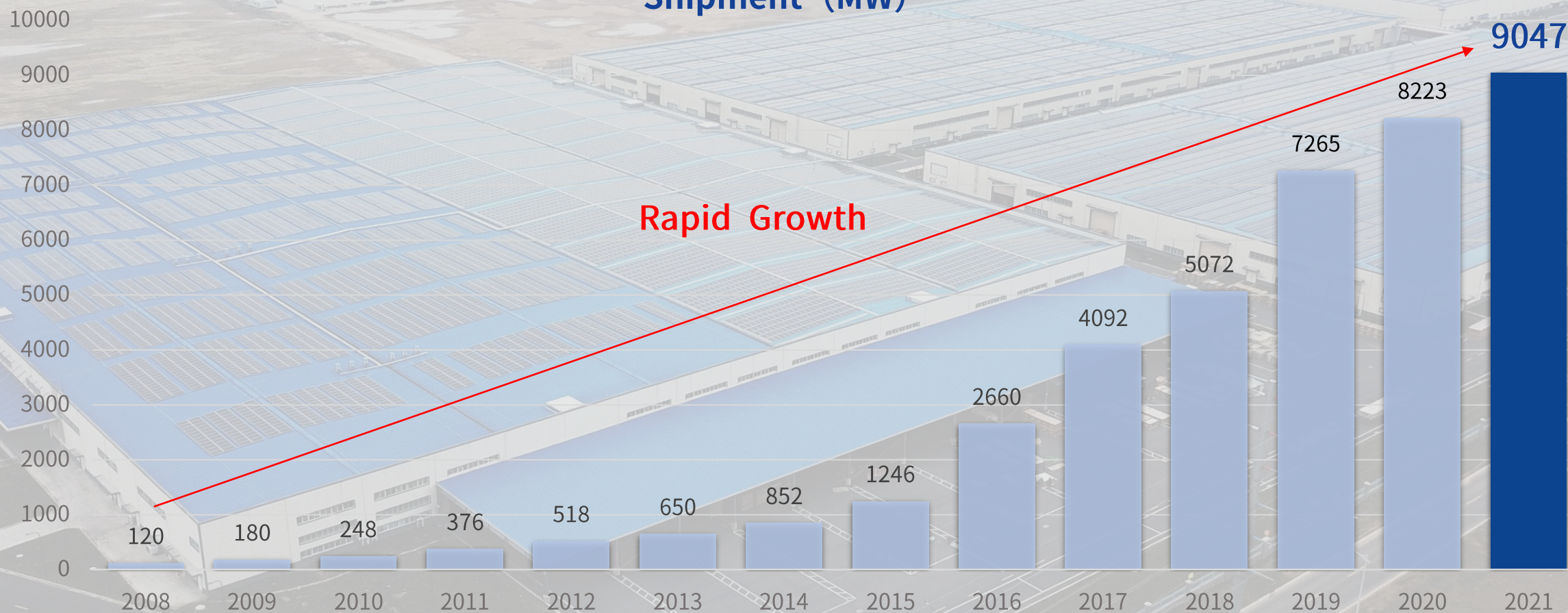
Source: BloombergNEF Note: Methodology [here](#). * denotes a company for which technical due diligence reports are available from PV Evolution Labs, PVEL. Contact Tara.Doyle@pvel.com for details. Brands are shown in reverse alphabetical order to avoid giving the impression that position in the list is significant.

Source : BNEF 2022 Q1

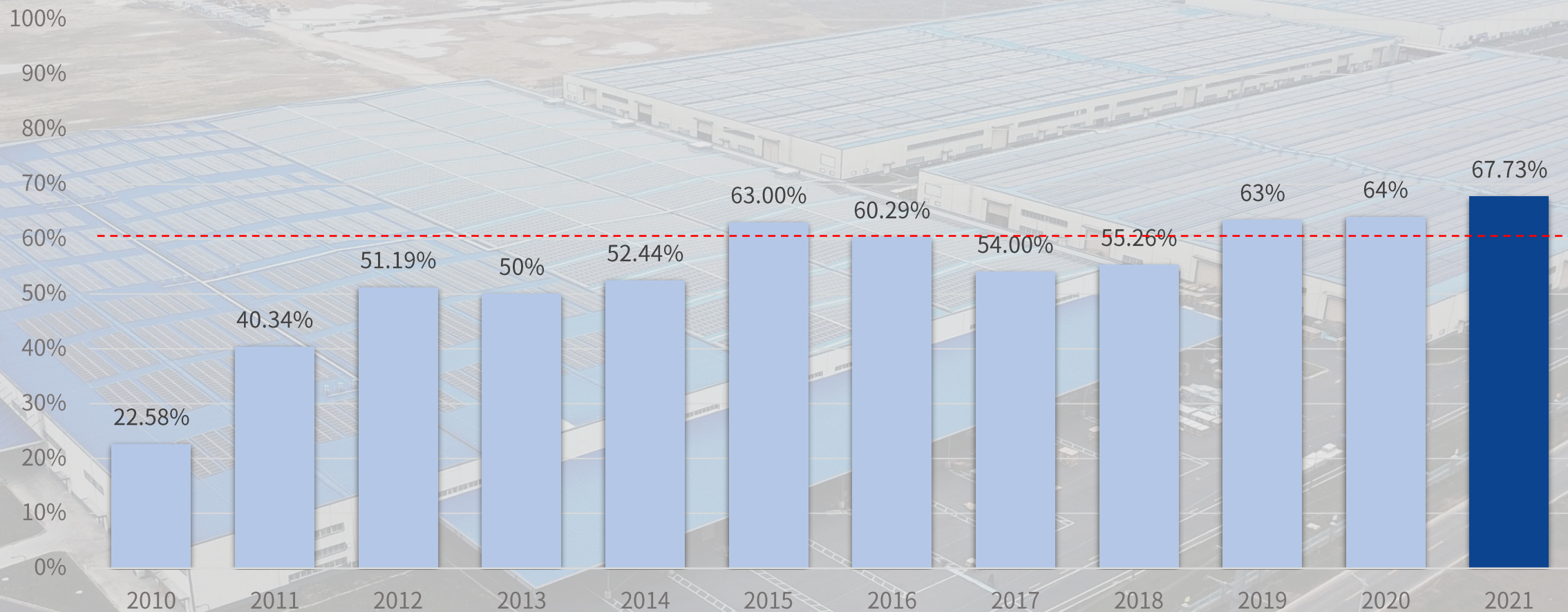
Shipment

Shipment (MW)

Rapid Growth

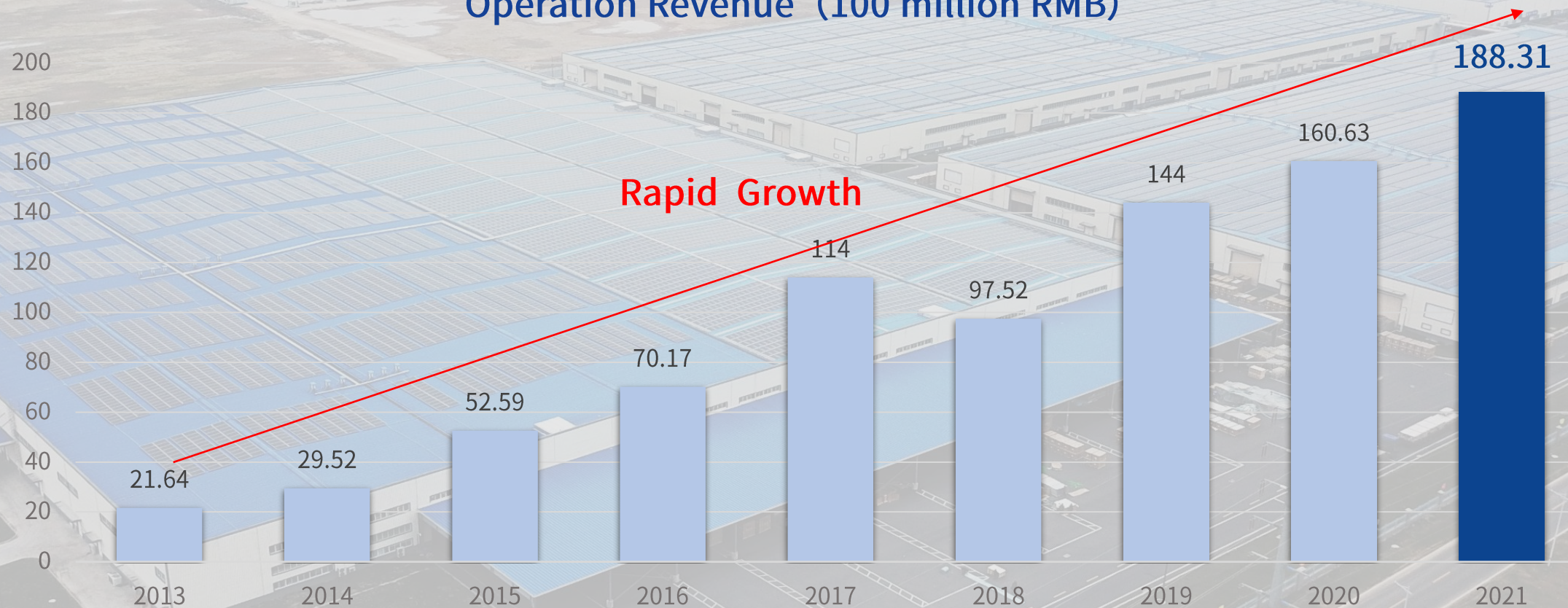


Debt Ratio



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



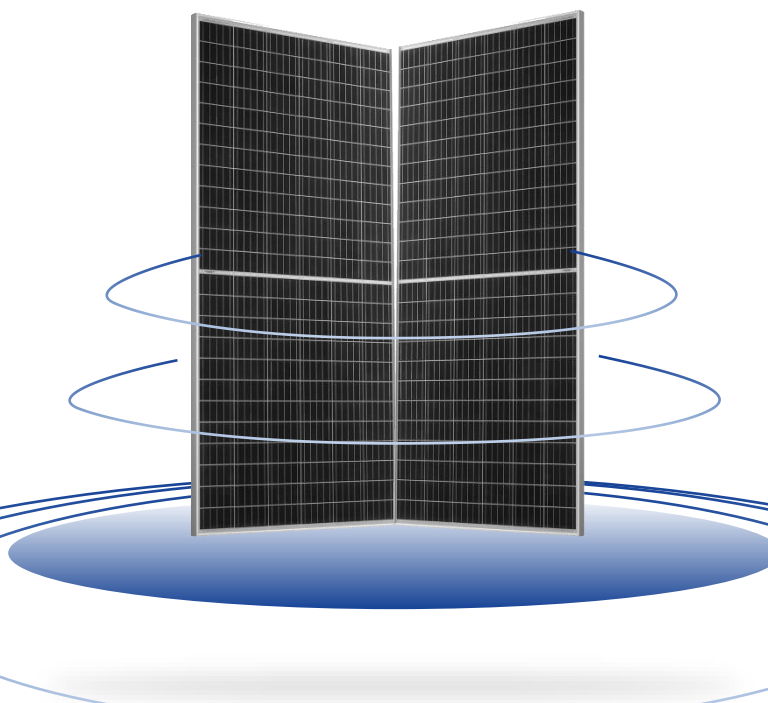
Global Customer Service

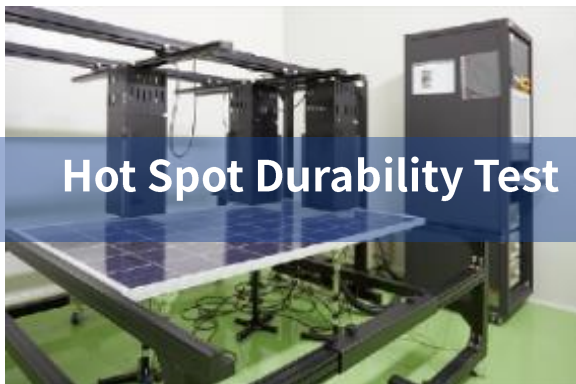
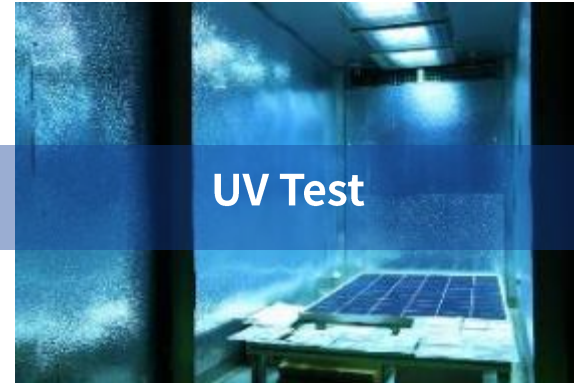
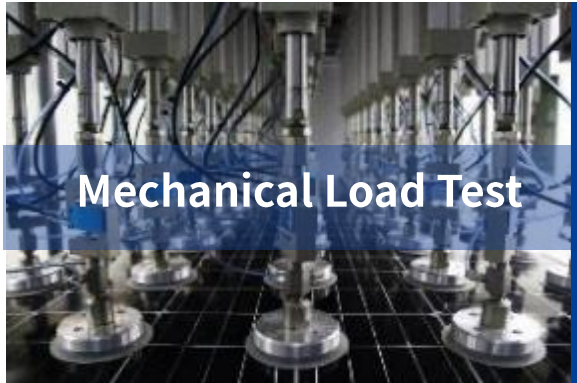
- Serve customers
- Deal with complaints
- Improve customer relationship
- Investigate customer satisfaction
- Giving feedback against customers' problems
- Drive internal improvement



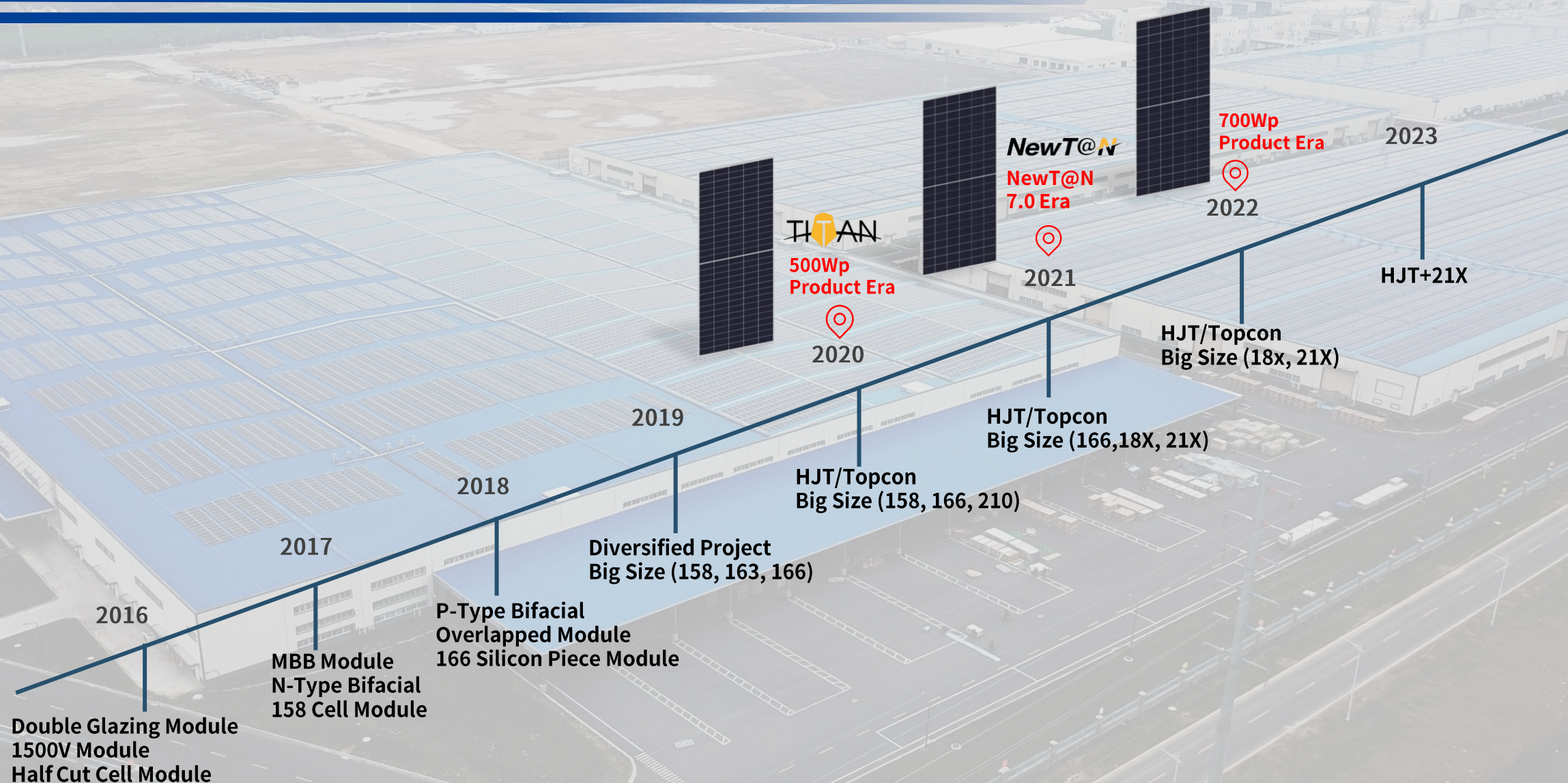
Product Quality Control

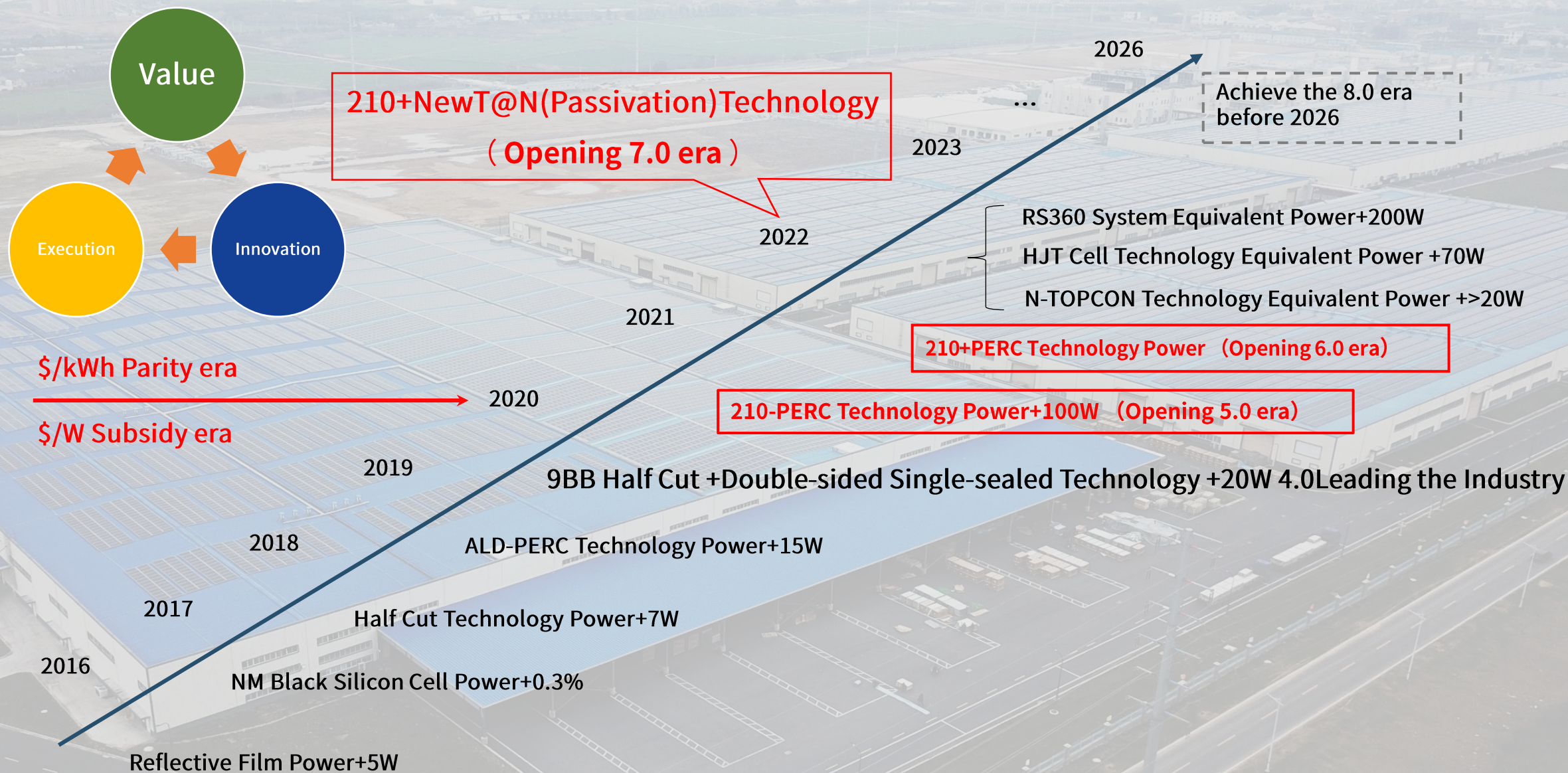
- Monitor production
- Promote quality management





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
7 Million RMB**



**Donate
500 Protective Suits**



**Donate
24,500 Face Masks**



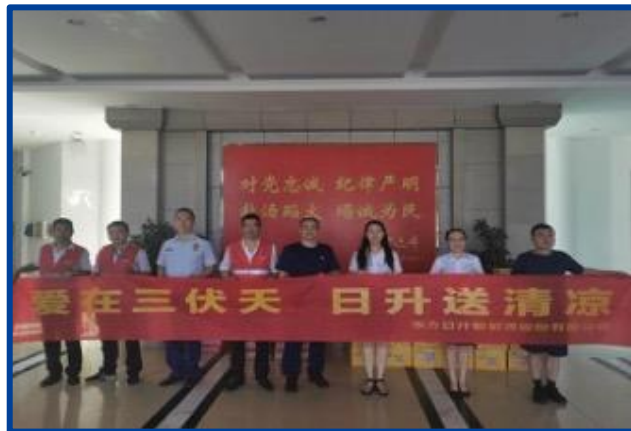
Care the Elders



Clean the Community Environment



Blood Donation



Community Services



Fighting Covid-19



New Employee Training



Devil Training



Cadres Training



Weekly Training

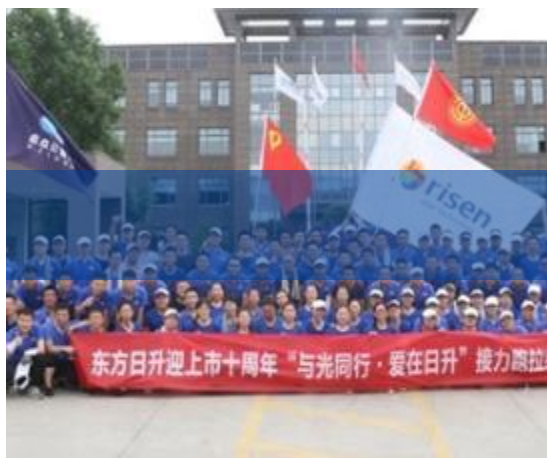


Outward Bound

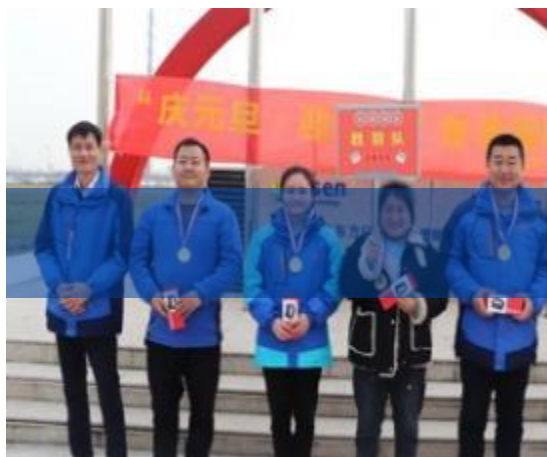


Lean Think Production
Management Training

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.





risen

The Power of Rising Value

Thanks for Watching!

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www.risenenergy.com