



Risen Energy Co., Ltd.

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Renewable Energy Solution Provider

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Company Profile



Risen Energy Co., Ltd. was founded in 1986 and went public on the Shenzhen Stock Exchange SME Board in September 2010, with the stock code 300118. The company is primarily engaged in the research, development, production, and sales of PV grid-connected power generation systems, standalone PV power supply systems, solar cells, and solar modules. It has established offices and subsidiaries worldwide, creating a global sales network in countries such as China, Germany, Australia, Mexico, India, and Japan, aiming to provide green new energy globally.

Based on the company's strategic goals, the company established the Global Photovoltaic (PV) Research Institute in November 2023, which is mainly responsible for integrated technology research, product development, product iteration and technology management. The institute is dedicated to providing cutting-edge carbon-reducing PV solutions and establishing a globally high-efficiency PV R&D innovation center. This will offer robust technical support to enhance companies' product and technological competitiveness. Risen Energy regards the Global PV Research Institute as a platform for global PV technology exchange and cooperation, promoting the widespread adoption of this technology worldwide while laying the groundwork for realizing our vision of "Risen Energy grows worldwide for hundreds years"



Mission

Continuously improving the energy pattern with technological innovation and the quality of human life.

Vision

Creating a new life for mankind through green new energy.

Service

Customer-centered, providing value through service.

91GW+

Cumulative shipment volume (by the end of Q2 2024)

48GW

Modules capacity in 2024

Grade A

Financing eligibility ranking

15000+

Global employees

90+

Countries/regions with business operations

Bloomberg

NEW ENERGY FINANCE

Tier 1 leading PV module manufacturer

Development History



RISEN

1986-2002

>>>

2002-2010

>>>

2010-2017

>>>

2017-PRESENT

Company established, rubber and plastic products
10 million RMB sales, 100 employees

Entered the solar industry
Exceeded 100 million RMB sales, 500 employees

Listed on GEM, over 2 billion RMB sales
Started a new undertaking, expanded to internet
finance and new materials

Launched the "Two New Strategies",
achieved the "10 billion RMB operating income" goal.
Diversified layout
Renewable Energy Solution Provider

Diversified Layout

-

Polysilicon

Crystal Pulling

Solar Cells

Modules

BIPV

Solar Lamps

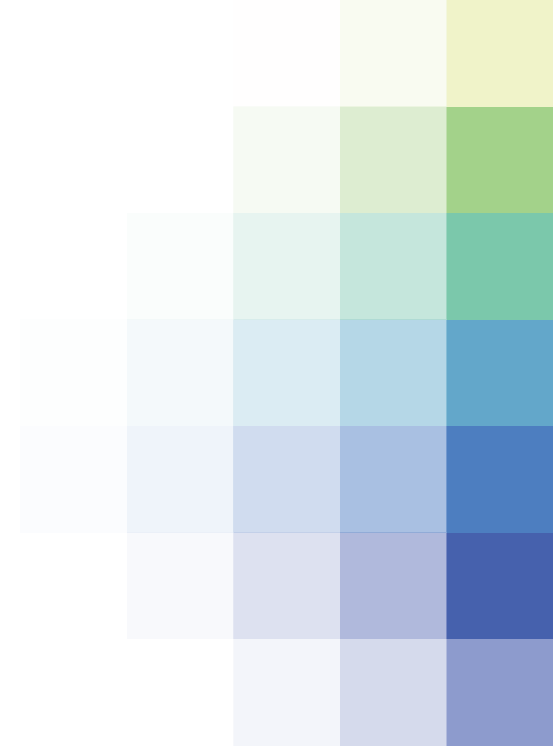
Ground Power Stations

C&I Stations

Energy Storage



Global Layout



Japan

Address: 〒104-0031 東京都中央区京橋2-12-2 NEWS Xビル 8階
 TEL: +81 3 3538 3533
 FAX: +81 3 3538 3536

Beijing

Address: Room 601-602, block D, Haige Communication Industrial Park,
 South Wuquan Road, Fengtai Science Park, Fengtai District, Beijing
 TEL: +86 15313388792

South Korea

Address: 서울특별시 구로구 디지털로32가길 16(파트너스타워2차)
 TEL: +82 70 4264 3210
 FAX: +82 2 830 4614

Shanghai

Address: Room 209, F2, Block C, Baosteel Pudong International Trade Building,
 88 Hedan Road, Waigaoqiao Free Trade Zone, Pudong New Area, Shanghai
 TEL: +86 574 59953588

USA

Address: 2570 N. First Street, 2nd Floor, San Jose, CA 95131
 TEL: +86 13656473355

Australia

Address: Hallmarc Business Park, 35/15 Ricketts Road,
 Mount Waverley, VIC 3149, Australia
 TEL: +61 3 9021 7788

Spain

Address: Calle Caléndula, 93 Edificio H, Planta 1 28109
 Alcobendas (Madrid)
 TEL: +34 91 020 0314

Malaysia

Address: No. 3, Jalan Hi-Tech 14, Zone Industri Fasa 4, Kulim Hi-Tech Park, 09090,
 Kulim, Kedah Darul Aman, Malaysia

Mexico

Address: IZA BC Plaza Carso, Torre 2, Piso 12 Calle Lago Zurich 219,
 Col.Ampliacion Granada Del. Miguel Hidalgo CDMX C.P.11529
 TEL: +52554124 0002

India

Address: 3rd Floor, # 8, 8A Hosur Road, above Reliance Digital Showroom,
 GB Palya, Bommanahalli, Bengaluru 560068. India
 TEL: +86 13656473355

★ **Headquarter** 21 global marketing service centers 8 production bases



Core Advantages

-

R&D investment

R&D investment in 2023
(100 million RMB)

6.75+

R&D personnel (number of people)

2059

Number of patents

Total: 740 (by the end of 2023)

New patents in 2023: 172

Supplier Quality Management

Annual audit supervision; daily assessment; major abnormal improvement promotion; new material introduction and change management, etc.

Global Customer Service

Dedicated to serving customers, handling customer complaints, improving customer relations, surveying customer satisfaction, feedback on customer issues, and driving internal improvement.

Performance Management System

Reliability control of material products, corporate standardization, system and institution development, cross-regional audits, and quality performance management, etc.

Certified Product Management System

Quality monitoring and improvement of each part of the production process, including incoming materials, processes, and outgoing products, to promote full-staff quality management.

Technology advantages >>>

n-type HJT Hyper-ion module

- 210 technology platform
- 25.5%+ cell efficiency
- 767.38Wp+ maximum power output
- The first to launch the 0BB cell technology
- The ingenious stress-free Hyper-link interconnection technology
- 120+ independent patents

n-type TOPCon module

- SMBB
- 25%+ efficiency of cell mass production
- 635Wp+ power output
- Use the rectangular wafer of G12R

p-type PERC Titan module

- 210 technology platform
- The first to launch 500W+ module
- Efficient and reliable packaging technologies
- 670Wp+ power output
- Lower BOS and LCOE

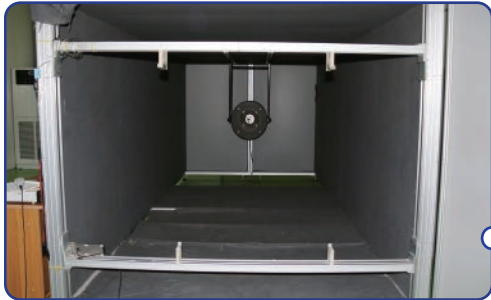
CNAS-certified National Laboratory



Hot-spot endurance test



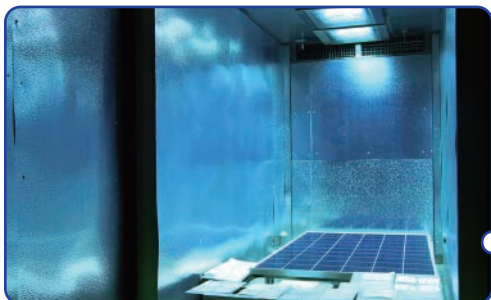
Mechanical load test



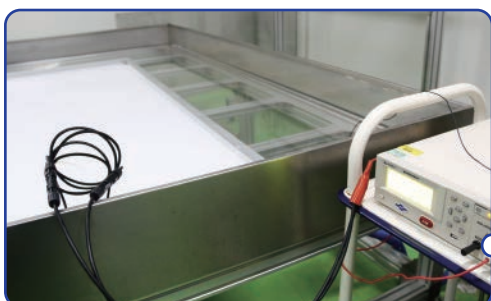
Borg power rating



Destructive test



UV test



Wet leakage current test



Class AAA steady state solar simulator



Professional certifications >>>

Comprehensive product and system certifications

IEC61215:2016; IEC61730-1/-2:2016

ISO 9001: 2015 quality management system

ISO 14001: 2015 environmental management system

ISO 45001: 2018 occupational health and safety management system

ISO 14064 greenhouse gas emission verification



3X IEC TEST



PVEL

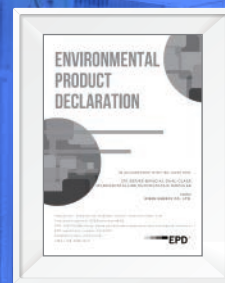


UNI 9177



CERTISOLIS
CARBON FOOTPRINT

Honors and certifications



Italy EPD



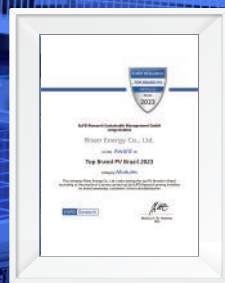
Solar Congress



Certisolis Carbon Footprint



EUPD



Product advantages >>>

Product warranty

| Product series | Product warranty | Power warranty | First-year degradation | Annual degradation |
|----------------|---|---|------------------------|---------------------------------------|
| Hyper-ion™ | 15 years | 30 years | 1% | 0.3% |
| TOPCon | conventional products: 15 years all-black products: 25 years | 30 years | 1% | 0.4% |
| TITAN | conventional products: 12 years all-black products: 25 years | mono-facial: 25 years bifacial: 30 years | 2% | mono-facial: 0.55% bifacial: 0.45% |

Characteristics and performance of modules

All modules are tested and certified by international standards.

Fully automated cell and module production lines with comprehensive quality control and barcode traceability systems.

Excellent low-light performance.

Module efficiency sorting: 0~+3%.

Standard snow load 5400Pa and wind load 2400Pa.

Upgraded IEC Standard certification.

Industry-leading heterojunction modules with ultra-high conversion efficiency: module efficiency up to 24.70% and module power up to 767.38Wp+.

Product certification

IEC61215: 2016; IEC61730-1/-2:2016, UL61730

IEC61701 Salt Spray Corrosion Test

IEC62716 Ammonia Corrosion Test

IEC62804 PID Test

IEC60068-2-68 Dust and Sand Test

IEC62782 Dynamic Load Test

LID Test

LeTID Test

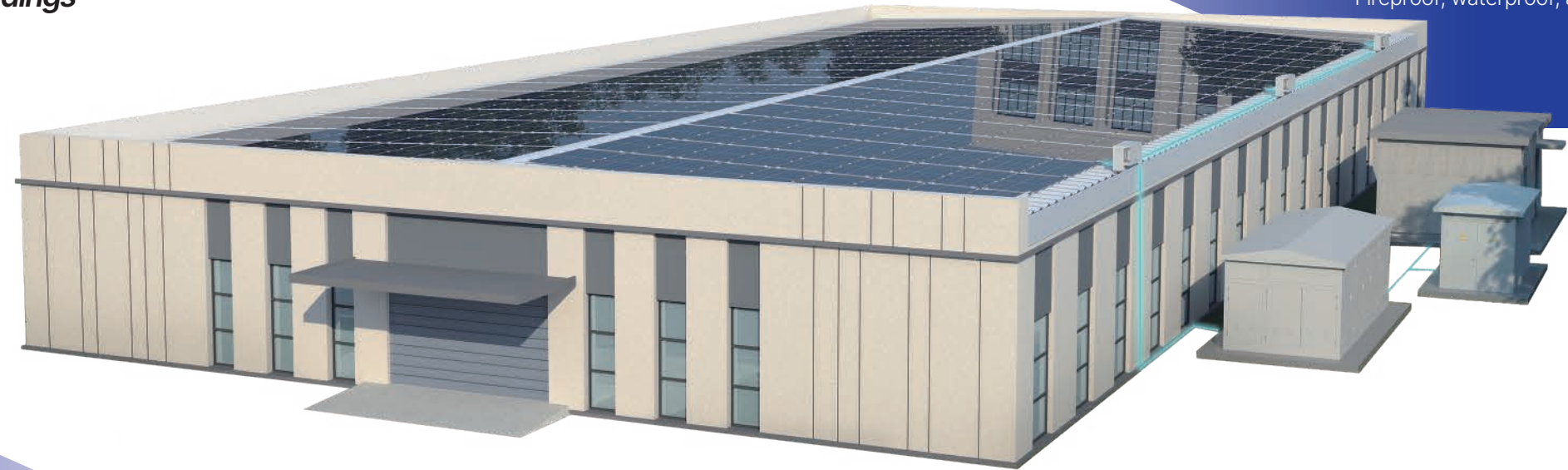
Regional certifications from other countries and regions

Risen Energy BIPV

Breaking the barrier between photovoltaics and buildings

C&I BIPV System Higher returns and safety

Super Roof / Converging energy Roof / Empowering energy Roof
30-year lifespan design
Increased installed capacity by 10%-30%
Fireproof, waterproof, and dustproof

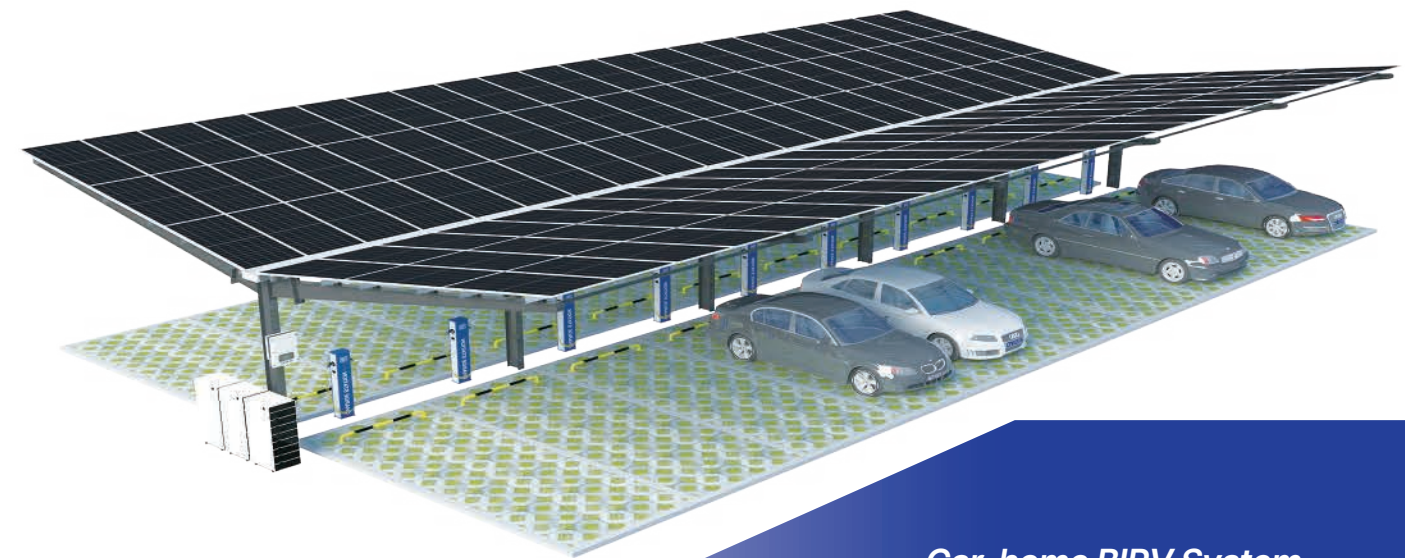


Super Tile BIPV System A simulated tile shape that integrates PV with buildings

Optional formats: Tiled type or stacked type
Tile-like design
Equal emphasis on energy efficiency and aesthetics for high-end villas
Easy and efficient installation



risen



Car-home BIPV System Clean energy for zero-carbon travel

Optional optical storage and charging solutions
Transparent frame cover design
Pre-fabricated and all-steel structure
Exquisite components for minimal installation

Risen Energy Power Station Development



Risen (Ningbo) Electric Power Development Co, Ltd.

Risen (Ningbo) Electric Power Development Co, Ltd. as a wholly-owned subsidiary of Risen Energy Co., Ltd., it is a high-tech enterprise that integrates research, design, investment, construction, and operation in the field of new energy.

The company is committed to being a one-stop solution provider for clean energy systems, with a focus on new energy technology research, optimized design, EPC management, and support from operation and maintenance services. This encompasses the coordinated development of ground and distributed power stations.

With a specialized EPC project design and construction management team, the company offers one-stop services throughout the entire process that includes consulting, site survey, system design, engineering installation, acceptance testing, after-sales service, and system upgrades.



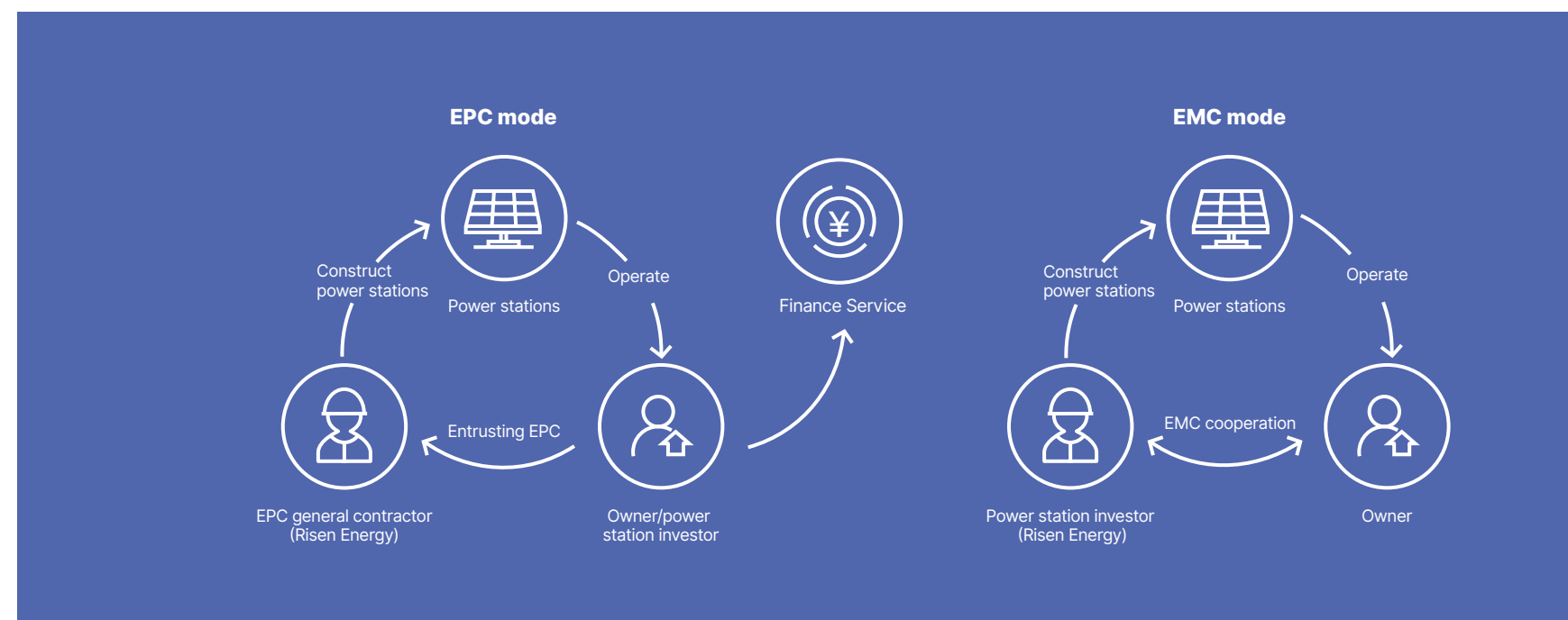
Distributed PV Power Station



Ground Solar Power Station



PV Energy Storage Integration



One-stop Solution



Planning



Designing



Financing



Construction



Operation



Solution design

Each PV project is unique. At Risen Energy, our professional engineers will work with you to design the best solution that meets your power capacity needs, budget, and building structure. We specialize in providing customized designing schemes and professional technical planning for your property through site inspections and equipment selection.



Construction & installation

Members of our construction team are all well-trained with professional experience in on-site installation. Risen Energy will provide each customer with a professional installation scheme tailored to different site conditions. By imposing strict construction controls and selecting top-quality equipment, we aim for the efficient delivery of each project and to build an optimized PV power system for all customers.

Risen Energy Energy Storage Products

Risen Energy SYL is a high-tech enterprise integrating R&D, production, sales and service in energy storage. The company is committed to becoming the world's leading "Energy Storage+" smart energy system supplier, and has a technical R&D team of over 200 people. The company's products cover Li-ion battery, pack, C&I and large-scale energy storage, with customers covering China, the US, the UK, Germany, Czech Republic, Canada, Australia, Thailand, Japan, Philippines and many other countries.



Grid-side Liquid Cooling

Saving on-site Labor Cost

Flexible Deployment

5016kWh battery@2500kW power

Multiple Safety Design

Adaptable to Site Layout

Water Fire Suppression System



Intrusion Detection System



Golden Shield Controller



Lock-level Visual Switch



Short-Circuit Protection



Fire Suppression System



C&I

BIPV

Time Shifting

User-side

- ◆ Time Shifting
- ◆ Demand Charge Reduction
- ◆ Backup Power
- ◆ Microgrid with Distributed Generation

Microgrid

Data Centers

Microgrid with Diesel Gensets

Power Generation Side

Renewable Integration

Generation Side

- ◆ Power Output Smoothing
- ◆ Planned Generation Tracking
- ◆ Peak Shaving, Frequency and Voltage Regulation
- ◆ Virtual Inertia

Grid Side

Ancillary Services

Grid Side

- ◆ Peak Shaving, Frequency and Voltage Regulation
- ◆ Increase Grid Flexibility
- ◆ Grid Investment Deferral
- ◆ Black-Start
- ◆ Distribution Capacity Reduction
- ◆ Improving the Economics of Distribution Grid Operation

Enterprise Culture

-

Party building culture

Wolf-like team

Humanistic care

Public welfare activities

Cultural events

Projects

150MW

Location: Inner Mongolia, China
Date of installation: 2021
Project type: Ground mounted



22MW

Location: Qinghai, China
Date of installation: 2024
Project type: Ground mounted



15MW

Location: Germany
Date of installation: 2024
Project type: Floating mounted



270MW

Location: Guizhou, China
Date of installation: 2022
Project type: Ground mounted

Projects

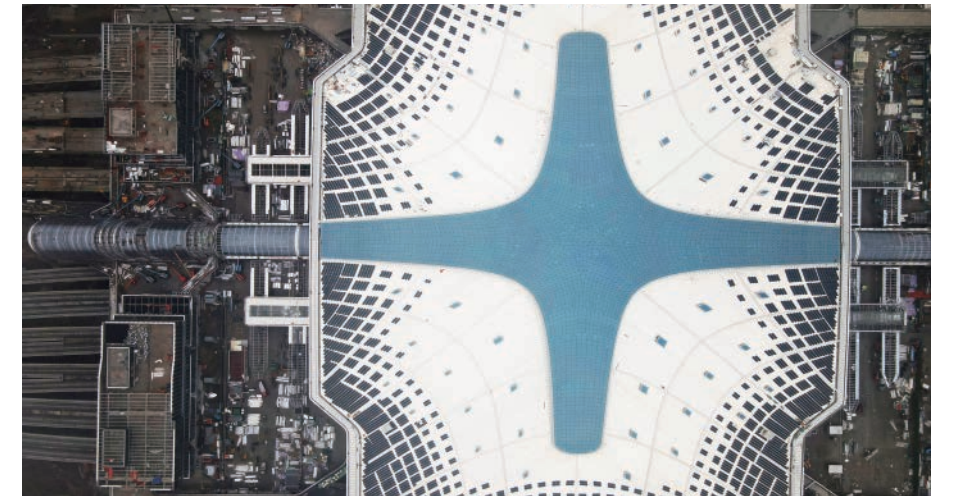


1.82MW

Location: Shandong, China
Date of installation: 2021
Project type: roof station

3MW

Location: Zhejiang, China
Date of installation: 2022
Project type: roof station



4MW

Location: Shandong, China
Date of installation: 2022
Project type: roof station



5.3MW

Location: Korea
Date of installation: 2024
Project type: roof station



Projects



▲ 100MW/100MWh

Location: Anhui, China

Date of installation: 2022

Applications: Peak-shaving, energy smoothing, and frequency regulation



▲ 40MW/109MWh

Location: USA

Date of installation: 2022

Applications: Energy transfer, energy smoothing

Projects

15KW

Location: Jiangsu, China
Date of installation: 2022
Project type: Residential - BIPV



20KW

Location: Zhejiang, China
Date of installation: 2023
Project type: Residential - BIPV



5.47MW

Location: Zhejiang, China
Date of installation: 2022
Project type: C&I - BIPV

300KW

Location: Yunnan, China
Date of installation: 2022
Project type: C&I - BIPV

