www.risenenergy.com

Risen Energy Co., Ltd.

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Tel: 400 8291 000

Fax: +86 574 59953599

Email: marketing@risenenergy.com

Website: www.risenenergy.com

RS-CB-2024V4

Renewable Energy Solution Provider

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Company Profile

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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.

96.65GW+

Cumulative shipment volume (by the end of Q3 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

1986-2002

Company established, rubber and plastic products

10 million RMB sales, 100 employees

2002-2010

Entered the solar industry

Exceeded 100 million RMB sales, 500 employees

2010-2017

Listed on GEM, over 2 billion RMB sales

Started a new undertaking, expanded to internet finance and new materials

2017-PRESENT

Launched the “Two New Strategies”, achieved the “10 billion RMB operating income” goal.

Diversified layout

Renewable Energy Solution Provider

Diversified Layout

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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

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

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

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

Headquarter 24 global marketing service centers 9 production bases

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

Core Advantages

-

R&D investment

R&D investment in 2023 (100 million RMB)

6.75+

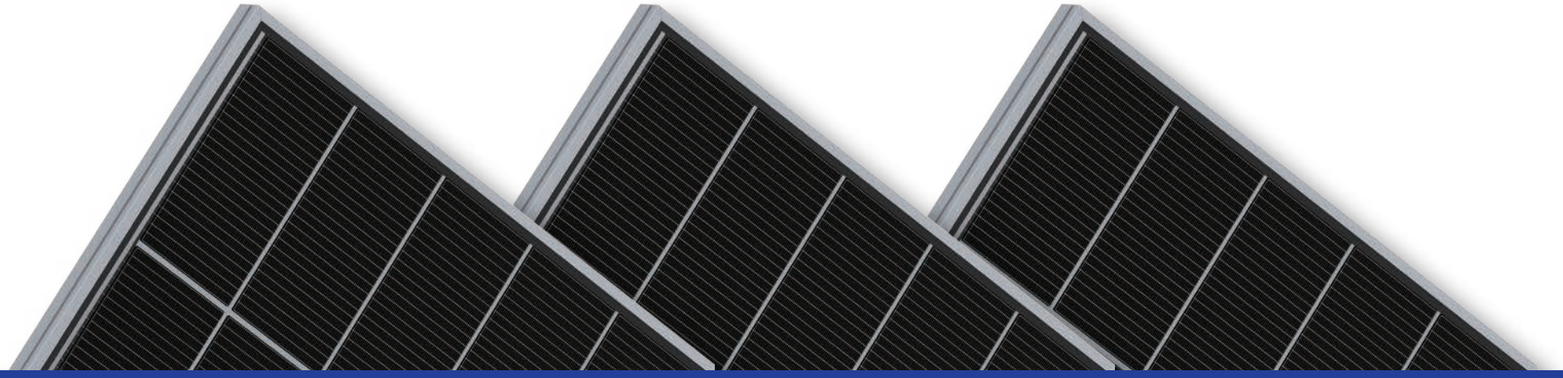
R&D personnel (number of people)

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

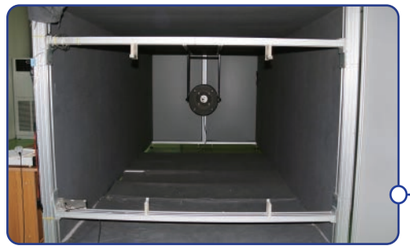
670Wp+ power output

Lower BOS and LCOE

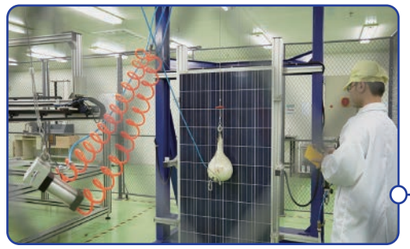
CNAS-certified National Laboratory

Hot-spot endurance test

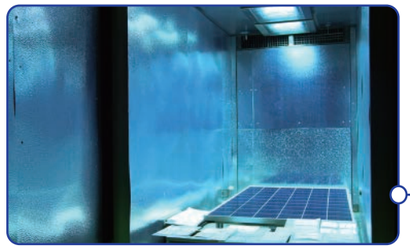
Mechanical load test



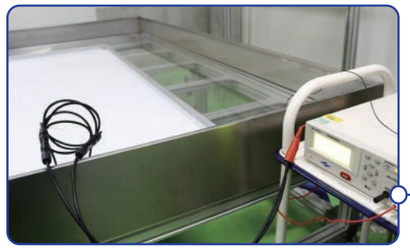
Borg power rating



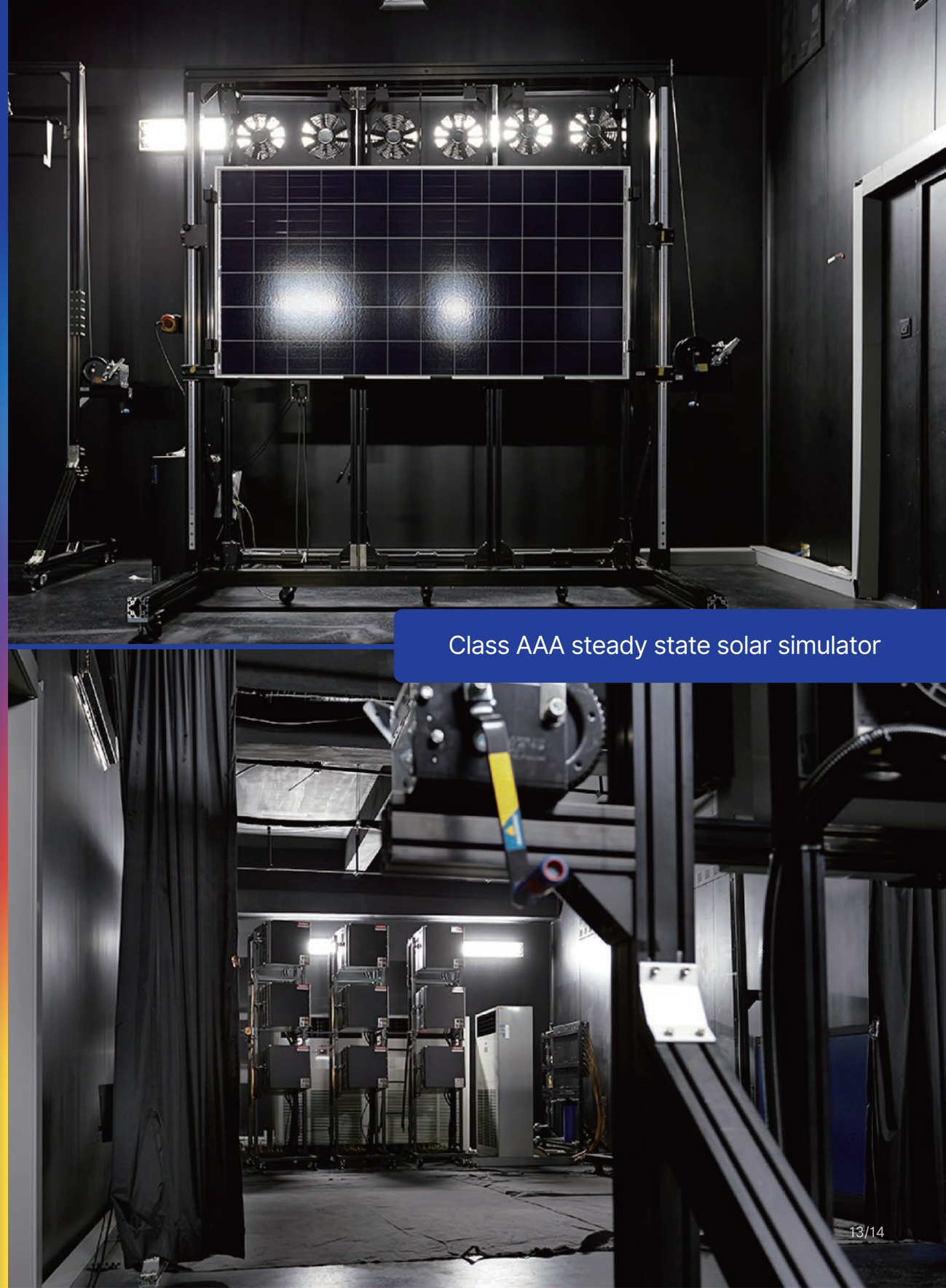
Destructive test



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

ISO9001
ISO14001
ISO45001
IEC62941

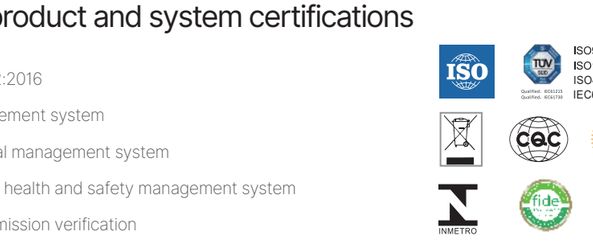
3X IEC TEST

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

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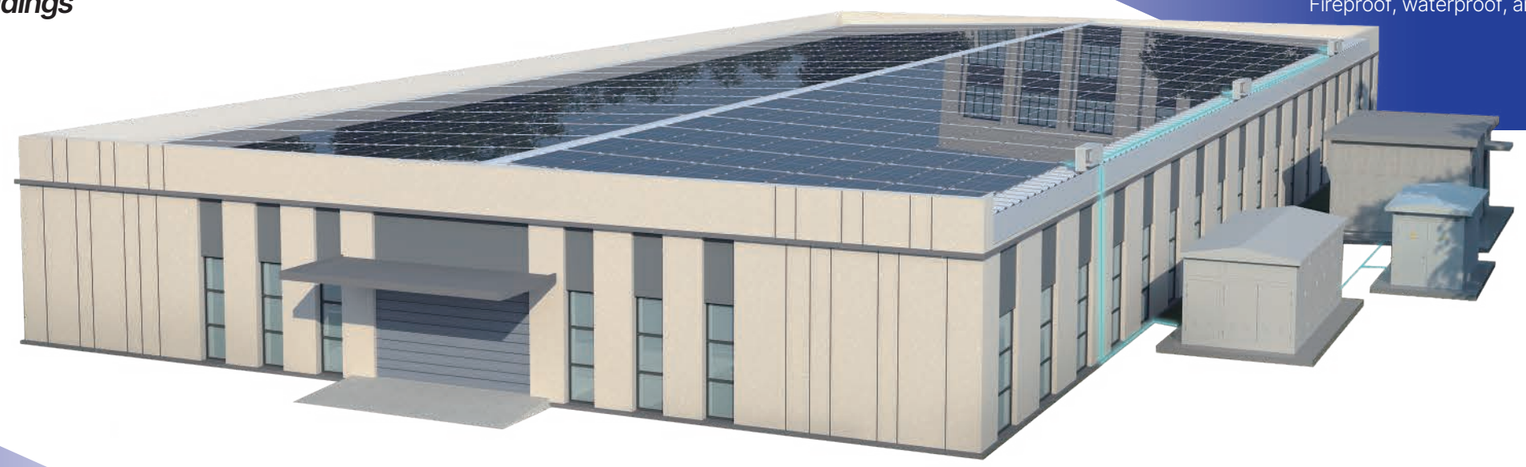
Breaking the barrier between photovoltaics and buildings

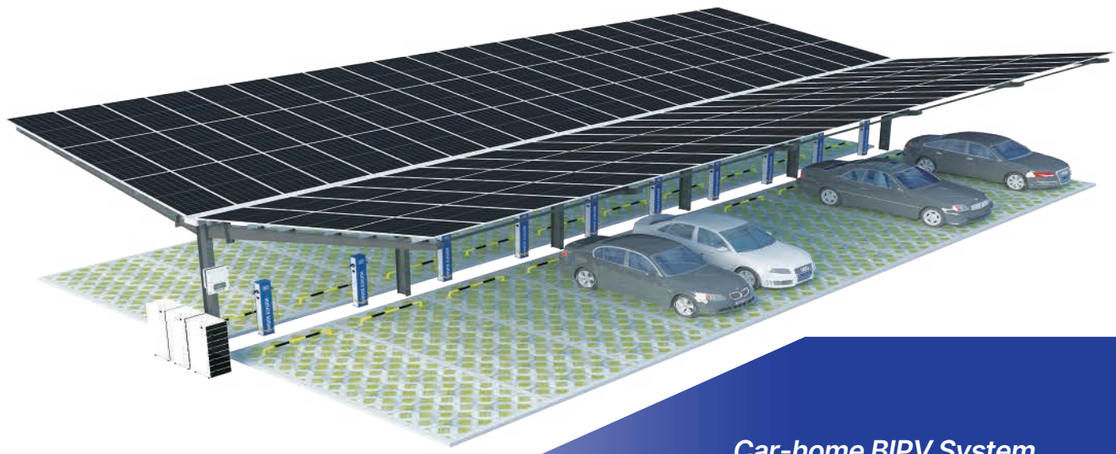


C&I BIPV System
Higher returns and safety

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



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

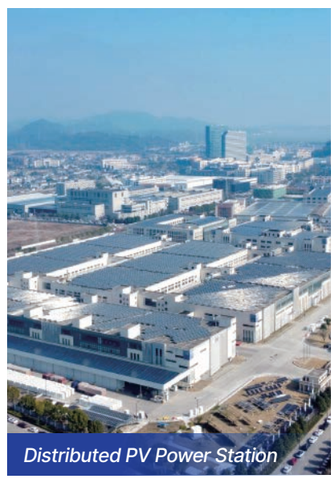
Risen Energy
Power Station Development
-

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.

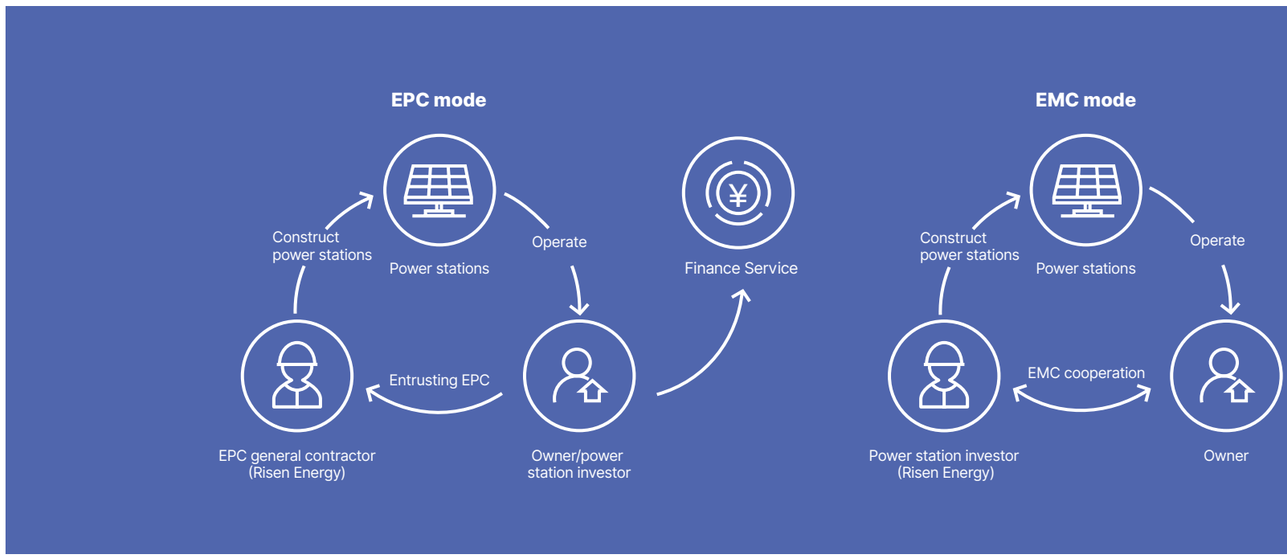
With a specialized EPC project design and construction management team, the company offers one-stop services throughout the entire process that includes consulting, site survey, system design, engineering installation, acceptance testing, after-sales service, and system upgrades.



Distributed PV Power Station

Ground Solar Power Station

PV Energy Storage Integration



One-stop Solution

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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 Storage

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Risen Storage has been dedicated to the lithium batteries for 18 years, integrating R&D, manufacturing, sales, and services. Its products include PCS, BMS, EMS, C&I and large-scale BESS. Notably, its Energy Storage Battery System is the first in China passing UL9540A certification in both the US and China. Through the deep integration of 3S technology, Risen Storage has developed a self-engineered BESS solutions provider for all applications. This solution is applicable in Renewable Energy Integration, Peak Shaving, Frequency Regulation, Demand Response, Backup Power, and Micro-grid, and other applications. The company remains committed to continuously improving the energy landscape through technological innovation.

With an annual production capacity exceeding 15 GWh, Risen Storage has deployed multiple energy storage projects across China, Europe, North America, and the Asia-Pacific region. The company has extensive experience in delivering large-scale BESS projects exceeding 100 MW globally, with its quality and service widely recognized by worldwide customers.

More Reliable More Efficient

C&I Energy Storage Utility-scale Energy Storage

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

-

Projects

150MW

Location: Inner Mongolia, China

Date of installation: 2021

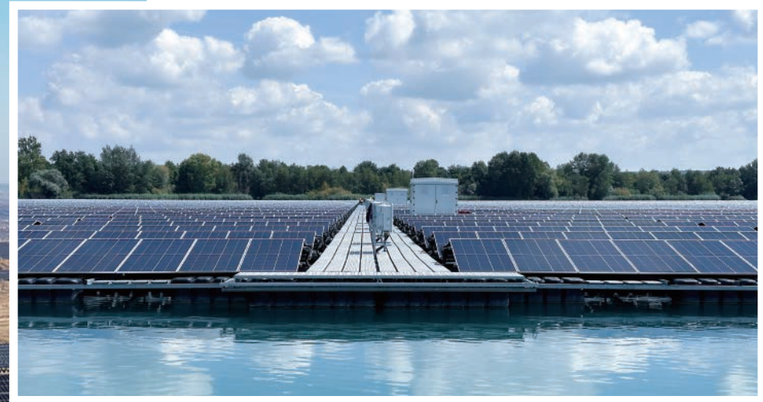
Project type: Ground mounted

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

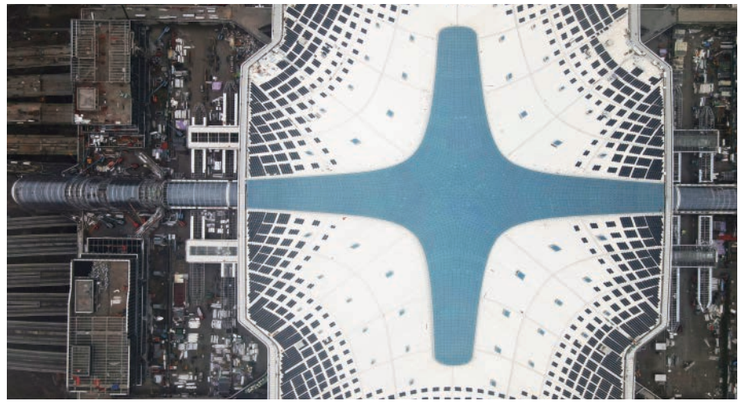
Project type: roof station

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

40MW/109MWh

Location: USA

Date of installation: 2022

Applications: Energy transfer, energy smoothing

100MW/100MWh

Location: Anhui, China

Date of installation: 2022

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

60MW/143MWh

Location: USA

Date of installation: 2023

Applications: Energy transfer, ancillary services

Projects

5.47MW

Location: Zhejiang, China

Date of installation: 2022

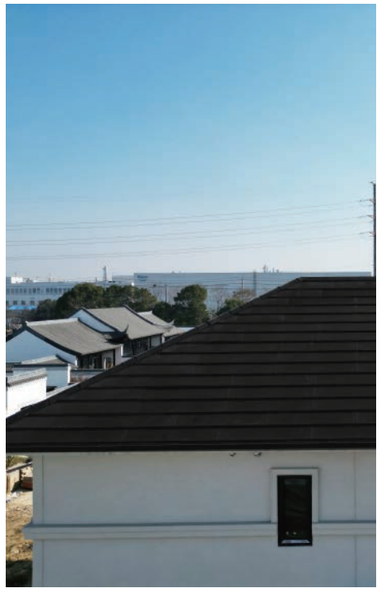
Project type: C&I - BIPV

15KW

Location: Jiangsu, China

Date of installation: 2022

Project type: Residential - BIPV

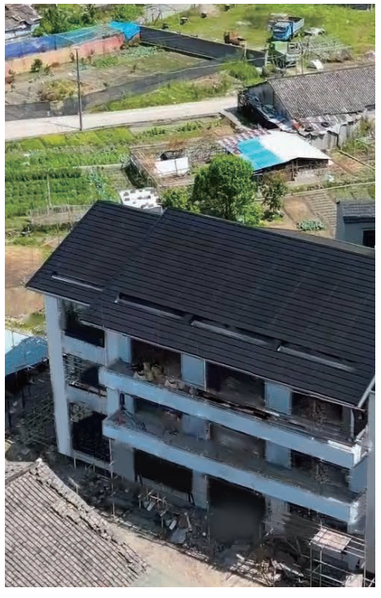


20KW

Location: Zhejiang, China

Date of installation: 2023

Project type: Residential - BIPV



300KW

Location: Yunnan, China

Date of installation: 2022

Project type: C&I - BIPV