



CREATE A SUSTAINABLE FUTURE

SINCE 2006

Manufacturer

Customized Design

PV System Integrating

SUNRISE ENERGY CO., LTD

www.sunriseenergy.cn

SUNRISE

ABOUT US



COMPANY PROFILE

SINCE 2006

SUNRISE brand was founded in 2006 , located in Changzhou, Jiangsu., with **35000m²** owned automatic workshop.

SUNRISE HAS PASSED ISO, TUV、CQC、CSI、CERTIFICATES

Sunrise has more than **100** core technology patents for its main business and has been awarded the honors of "AAA rating of the highest credit rating of Chinese enterprises", "High-tech enterprise", "Excellent brand of Jiangsu Province", "Top ten influential enterprises" and "Top ten innovative module enterprises".

SUNRISE ADHERES TO THE BRAND POSITIONING OF "CREATING A SUSTAINABLE FUTURE"

Focusing on scientific and technological innovation, Sunrise has successfully built four business segments: **solar modules manufacturing and sales; inverters manufacturing and sales; system integration and sales; energy storage and application.** So far, Sunrise has provided high-quality photovoltaic products and energy solutions to more than 100 countries in the world.

DEVELOPMENT HISTORY

2006-2015



The brand was established in Changzhou, Jiangsu.



The first 8MW project in Italy.



Signed an exclusive agency agreement with HSBC for the financing of Australian resident photovoltaic projects.



Sunrise was rated by AAA, the highest credit rating of Chinese enterprises.



Awarded the title of "national high tech enterprise".



Branch in Australia NPP Energy Pty Ltd was Officially established.



New production base with annual capacity exceeding 500MW.



Successfully invested in Australian public utilities pv project.

DEVELOPMENT HISTORY

2016-2021



Established the independent brand "zhaoyangbao" PV power generation system.



Awarded "China's most influential brand enterprise", "excellent PV enterprise award", "excellent module Award" and other honors.



Monthly 1million US dollars income and won the title of "super seller" of Alibaba international station.



The automatic production line was updated to produce M10 and G12 cells, capacity is up to 1GW .



Awarded the title of "Jiangsu excellent brand".



Brand 'S' graphic trademark has been successfully registered in EU and China.



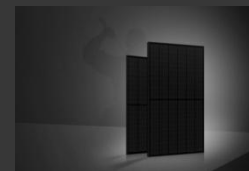
Sunrise global dealer annual meeting was held.



Mr. Yuan Qinghua was awarded the title of provincial "Excellent Entrepreneur".



Included in the list of Jiangsu key enterprises in 2020.



Full-black modules has been passed the test by TUV(Safety).

DEVELOPMENT HISTORY

2022-2023



N-type solar modules were officially launched, and capacity was up to 2GW.



Italy CSI certification.



Sunrise brand was awarded internationally renowned brand of key cultivation and development in Jiangsu.



N-type TOPCon light weight double glass solar modules were launched in Frankfurt.



Aqueous battery was launched globally in Germany, 100% safe, environmentally friendly and pollution-free.



British MCS certification.



Long-term strategic cooperation with Sri Lankan government.

DEVELOPMENT HISTORY

2024.....



Overseas subsidiaries
Overseas warehouses.



Morocco subsidiary
was established in
May.



More subsidiaries will be
established soon in Senegal,
Ghana, Ivory Coast, Togo,
Nigeria, Mali and so on.



Pakistan subsidiary was
established in April.



Tunisia subsidiary
was established in
August.

More good things are happening...

TIMES TO ATTEND EXHIBITION

Covered EU , South America , Southeast Asia , Asia , Africa

2015

2017

2019

2021

2022

2025



2016

2018

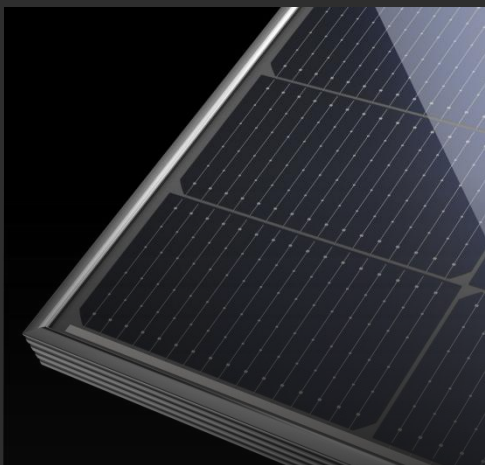
2020

2023

2024

A close-up, high-contrast photograph of a hand dropping a white chess king piece onto a dark, reflective chessboard. The piece is captured mid-fall, with a cloud of fine white dust or powder erupting from its base. Several other chess pieces, including pawns and a blue king, are visible on the board, some in sharp focus and others blurred. The background is dark and out of focus, emphasizing the action on the board.

MAIN BUSINESS



**SOLAR MODULES
MANUFACTURING
AND SALES**

Business 1



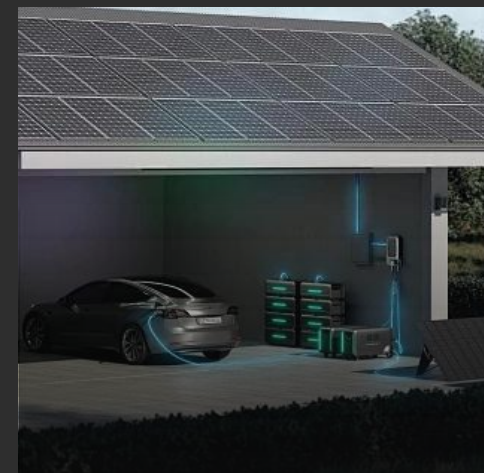
**INVERTERS
MANUFACTURING
AND SALES**

Business 2



**SYSTEM DESIGN,
INTEGRATION AND
SALES**

Business 3



**ENERGY
STORAGE AND
APPLICATION**

Business 4

LARGE SIZE AND HIGH POWER SOLAR MODULES

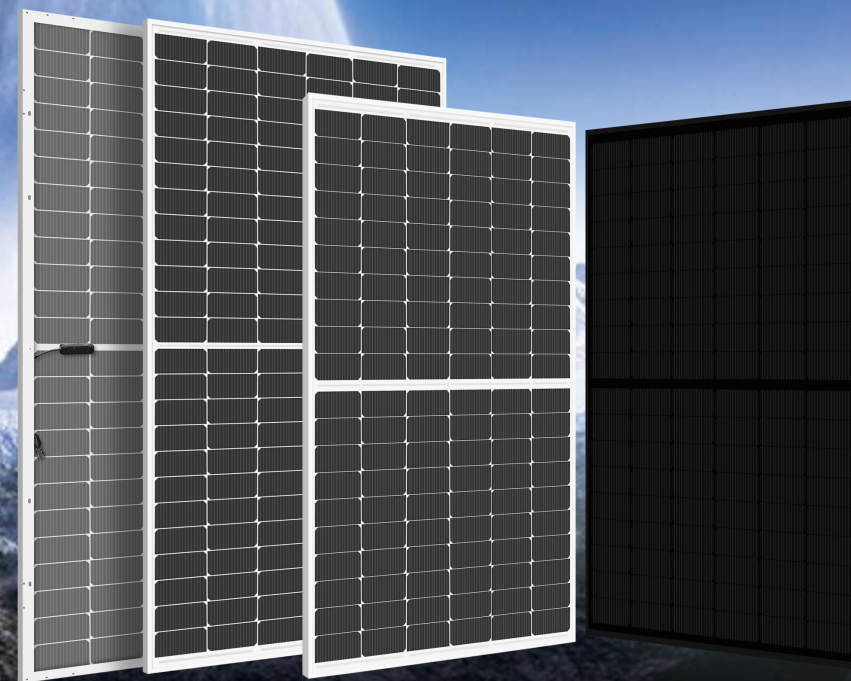
ANNUAL CAPACITY **2GW**

GLOBAL BUSINESS PARTNERS **120+**

30-YEAR PRODUCT WARRANTY + LINEAR POWER
WARRANTY

- WATERPROOF, DUSTPROOF, FIREPROOF,
- AMMONIA RESISTANCE, SALT SPRAY RESISTANCE
- AND HIGH CONVERSION EFFICIENCY

· Patented design, strong heat dissipation, easy maintenance, more efficient



Aquaman Series--M10 (double glass, single glass)
Zeus Series--G12 (double glass, single glass)

THREE PHASE STRING ON GRID INVERTERS

TLC SERIES

- FLEXIBLE DESIGN
- EFFICIENT CONVERSION
- GRID FRIENDLY
- EXCELLENT QUALITIES

Certification & Standard:

NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)

IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140

IEC61683, IEC62116, EN50530, IEC60068



PV SYSTEM BRAND

ZHAOYANGBAO



Main components of on grid system :

PV module, Grid-connected inverter ,
Support brackets, PV cables(DC cable, AC
cable), lightning proof grounding system ,
combiner box and distribution box.



remote monitoring



save electricity



green building

ENERGY STORAGE INTELLIGENT SOLAR POWER SOLUTION

The advantages of Sunrise energy storage system
in realizing power balance within the microgrid :



Flexible use



Reliable output



Full day supply



Stable output



transfer from on grid to off grid



Not affected by external power

SMART PRODUCTION

35,000 square meters

AUTOMATIC PRODUCTION+BEST QUALITY CONTROL

ENVIRONMENT OF WORKSHOP

Passed the environmental impact assessment audit, the environmental protection completion acceptance of the project, and passed the ISO management system certification.

INTELLIGENT PRODUCTION

Manufacturing system MES, warehouse management system WMS, customer relationship management system CRM.

QUALITY OF PRODUCT

A full-time quality inspection team, product traceability system.

QUALITY INSURANCE

Adopt high-density packaging process, stable performance and reliable quality.



$\geq 23\%$

Conversion efficiency



$\leq 1\%$

Attenuation (first year)



$\leq 12.6\%$

Attenuation (30 years)

HIGH-EFFICIENCY MODULAR AUTOMATIC PRODUCTION LINE

Sunrise divides the production of modules into multiple relatively independent and highly interconnected modules, scientifically applies statistical engineering, equipment improvement and clean production that combines various management systems, fully automated production lines, while ensuring the consistency of finished product quality, product quality is guaranteed, production efficiency is improved, production costs is reduced, and return of investment are increased.



15%

Lower cost



15%

Increased efficiency



24*7

All-time monitoring
system



100+

Product and process
improvement patents



99.4%

Qualified percentage



35%

Increased eff
Of manufacture

RELIABLE QUALITY

100%

100% raw material test

80 STEPS

Supplier test

Solar cells test , EL test , EVA test , cable test , frame test

3 PROCESS

EL test of Modules will be from string welding to Lamination and final EL.

100%

Industry leading performance tester

100%

Appearance test



A background image showing two business people in suits shaking hands. The image is darkened and has a large, semi-transparent word 'SURPRISE' written across the center. Overlaid on this is the text 'Our Advantages' in white.

Our Advantages

Advantage 1 :

19 years of PV manufacturing experience

We have rich R&D and manufacturing experiences to
promise the product quality.

Advantage 2 :

Strict selection of quality



Incoming materials
inspection



Process EL inspection



Final EL inspection



Packaging Inspection

Advantage 3 :

Flexible business model

Sunrise builds up one station service model, including system design and integration, sales, installation, operation and maintenance of PV modules and inverters, energy storage system, etc.

Advantage 4 :

Diversified overseas channels Local team, local warehouse

Our teams serve the final clients directly, providing the most convenient sales services of modules, systems, energy storage, and also other solar energy products.

Advantage 5 :

Project management and considerate service



PROFESSIONAL TEAM

All have rich experience in photovoltaics. 100% of the engineers hold the construction engineer certificate. The core managers and personnel information are checked and filed to ensure the technical ability of the construction personnel. All projects are quality inspected at every level, and 5 key nodes are specially inspected. The construction party, the project department, the engineering department Multi-party and multi-level acceptance by the department, company, owner and supervisor.



MANAGEMENT MECHANISM

The perfect management mechanism and construction standards enable Sunrise to follow up and deal with emergencies and special events on the project site in a timely manner, so that every screw and every interface can be based on evidence.



SERVICE GUARANTEE

The engineering management team attaches great importance to communication and coordination with the owner, and can respond to the owner's suggestions and requirements in a timely manner, providing professional consultation, including R&D, design, business, and engineering 1-to-1 professional value-added services throughout the life cycle.

Advantage 6 :

Intelligent operation and maintenance

All time monitoring

Through the integration of Internet technology and new energy technology, establish a cloud data collection system, conduct big data analysis of power station operation, improve and optimize power station management, effectively ensure and increase power generation, data monitoring, and the whole life cycle will continue to create for customers best profit.

Sunrise Distributed Intelligent Operation and Maintenance Platform



A field of sunflowers under a sunset sky. The sun is low on the horizon, creating a warm, golden glow. The sunflowers are in the foreground, slightly out of focus, with their heads turned towards the sun. The sky is filled with soft, wispy clouds.

GLOBAL PROJECTS

Create A Sustainable Future



8MW
Montenero, Italy

PV Ground Project



5MW

Spain



3MW

Philippine



13.5MW

Germany



15MW

Florence Italy





1.8MW

Yokohama Japan



1.16MW

The Netherlands



3.75MW

Estonia



1MW

Austria



5MW

Bulgaria





350KW

Sydney, Australia



60KW

Morocco



52.8KW

Morocco



240KW

Bulgaria



750KW

Cobourg Germany





Residential



8.4KW

Frankfurt, Germany

3.2KW

Italy

4KW

Amsterdam, Netherlands

3.4KW

Klaipeda Lithuania



15KW

Huaihua, Hunan

9.72KW

Gansu, Baiyin

10KW

Henan, Zhoukou

13KW

Hengshui, Hebei



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