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Issued by RUNERGY Global Marketing Department

A GLOBAL PARTNER IN RENEWABLE ENERGY

Contents

- 01 About Runergy**
Page 01 >> Page 02
- 02 Core Strategy**
Page 03 >> Page 06
- 03 Core Product**
Page 07 >> Page 12
- 04 Core Team**
Page 13 >> Page 16
- 05 Partners**
Page 17 >> Page 18
- 06 Sustainable Development**
Page 19 >> Page 20

About Runergy



130,000 TONS

50,000 tons polysilicon capacity in Ningxia
80,000 tons polysilicon capacity planned
in Inner Mongolia

7GW

7GW ingot capacity
(Planned in Vietnam)

63GW

63GW total cell capacity
(27GW PERC+36GW N-Type) globally

TOP 3

Top 3 in global PV cell sales
by PV InfoLink from 2020 to 2022

23GW

23GW total module capacity
globally

13GW / 11GW

13GW cell capacity and 11GW module capacity
in Thailand and USA

Jiangsu Runergy New Energy Technology Co., Ltd, established in 2013, is a global leader in solar technology. Through strategic partnerships with Fraunhofer-ISE in Germany and UNSW in Australia, Runergy's solar cells have garnered widespread acclaim due to continuous independent innovation, effective execution, and meticulous process management.

Leveraging solar cell technology expertise, Runergy expanded its presence in the solar industry, with facilities including Ningxia polysilicon plant, Jiangsu cell & ultra-high efficiency cell plants, Jiangsu module plant, Thailand cell & module plant, and Yunnan ultra-high efficiency cell plant, ensuring global client demands are met.

Runergy is committed to delivering consistently high-quality products, offering a more transparent and efficient supply chain. This commitment assists us navigate market volatility and solidifies our reputation as a reliable and trusted brand.

Brand History

2013

Runergy was founded.

2015

Runergy expanded into the solar cell business.

2017

Runergy and Lu'an Photovoltaics established Luyang, a JV company producing PERC solar cells;

Runergy Yueda was established and Runergy's first PERC solar cell production facility began construction.

2018

RAMBO Power was established to develop the power plant business.

2019

Runergy entered overseas markets and the Solar Cell Production Facility in Thailand began construction.

2020

Phase I of the Thailand Facility commenced operations;

Series C financing was successfully completed;

The headquarters relocated from Kunshan to Yancheng, Jiangsu Province.

2021

Jiangsu Hyperion was established, marking Runergy's official entry into the module production business;

Ningxia Runergy Silicon Material Project was commenced.

2022

Hyperion Module Production Facility began operation;

The Silicon Material Production Facility in Ningxia began operation.

2023

The Cell Production Facility in Yunnan began operation;

The Module Production Facility in Thailand began operation;

The crystal pulling and slicing project in Vietnam has begun the planning phase;

The Module Factory in Alabama, USA has begun the planning phase.

RUNERGY

Global Footprint

ADVANCING THE GLOBAL ENERGY LANDSCAPE >>



Research & Development

Jiangsu, China
Research & Development

Shanghai, China
Research & Development

Financing Platform

Shanghai, China
Financing platform

Singapore
Financing platform

Office

Jiangsu, China
Headquarters

Shanghai, China
Supply chain

Singapore
Supply chain

Germany
Office

Polysilicon Facility

Ningxia Polysilicon Facility
50,000 tons of Polysilicon

Inner Mongolia Polysilicon Facility
80,000 tons of Polysilicon (Planned)

Crystal Pulling and Slicing Factories, Vietnam
7GW Ingot (Planned)

Cell Facility

Jiangsu Cell Facility
21GW PERC Cell & 16GW N-Type Cell

Yunnan High-Efficiency Cell Facility
13GW N-Type Cell

Thailand Cell Facility
6GW PERC Cell, 7GW N-Type Cell in 2023

Module Facility

Jiangsu Module Facility
12GW Module

Thailand Module Facility
2GW P-Type Module, 7GW N-Type Module in 2023

Production Facility in Alabama, United States
2GW Module (Planned)



50_{GW}

Accumulative cell shipment

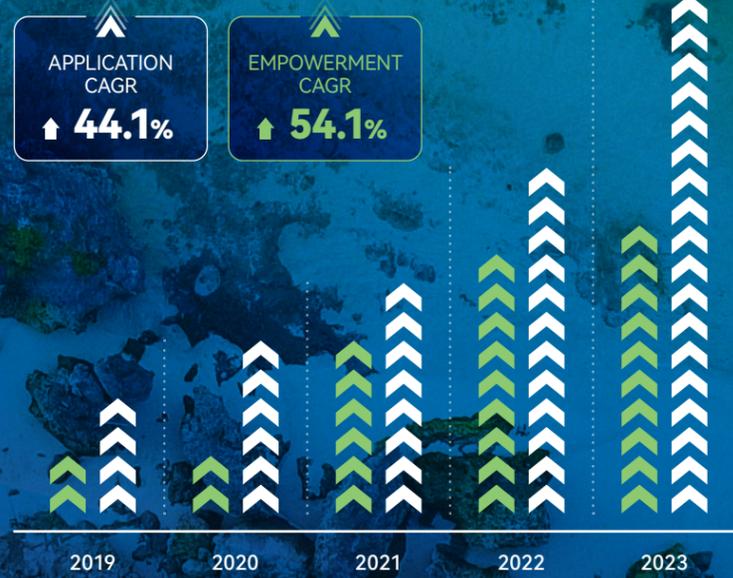
23.5%

PERC cell efficiency record

25.6%

N-type cell efficiency lab record

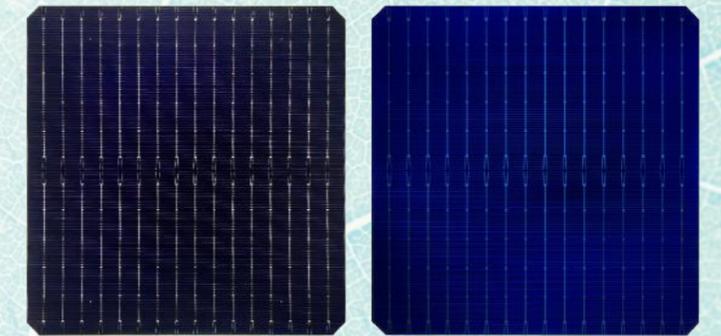
Patents



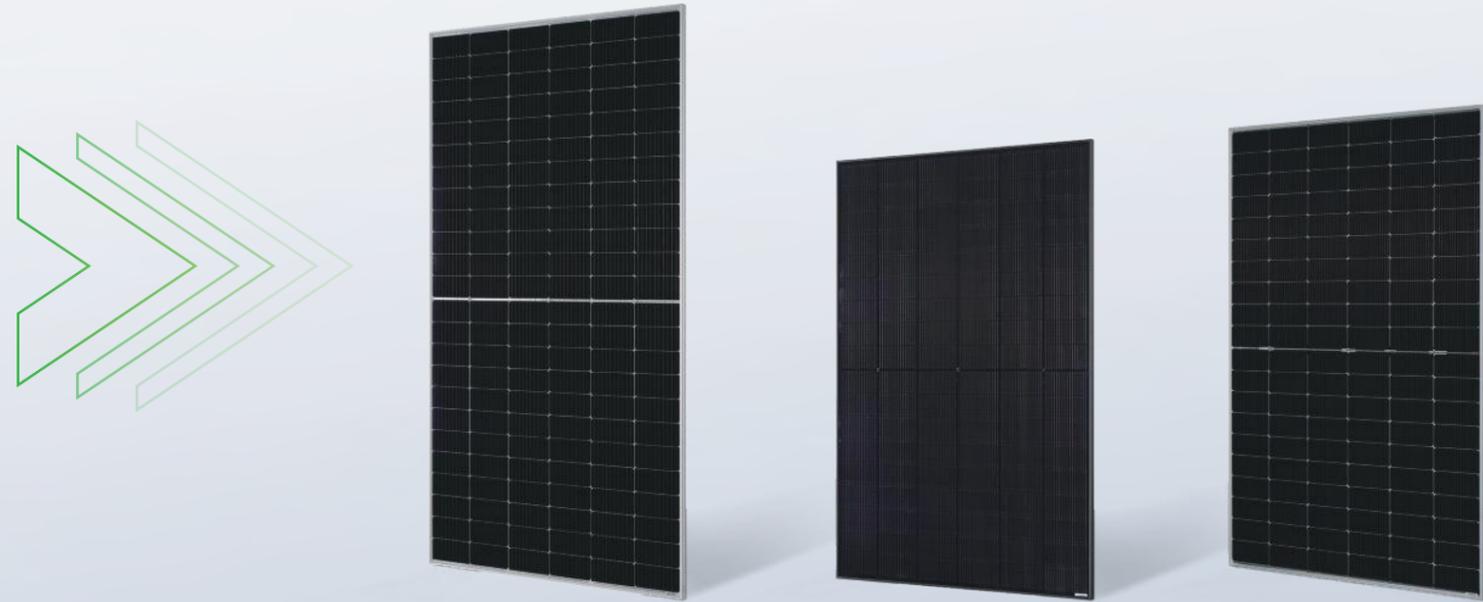
Leading Cell Manufacturer

N-Type Cells

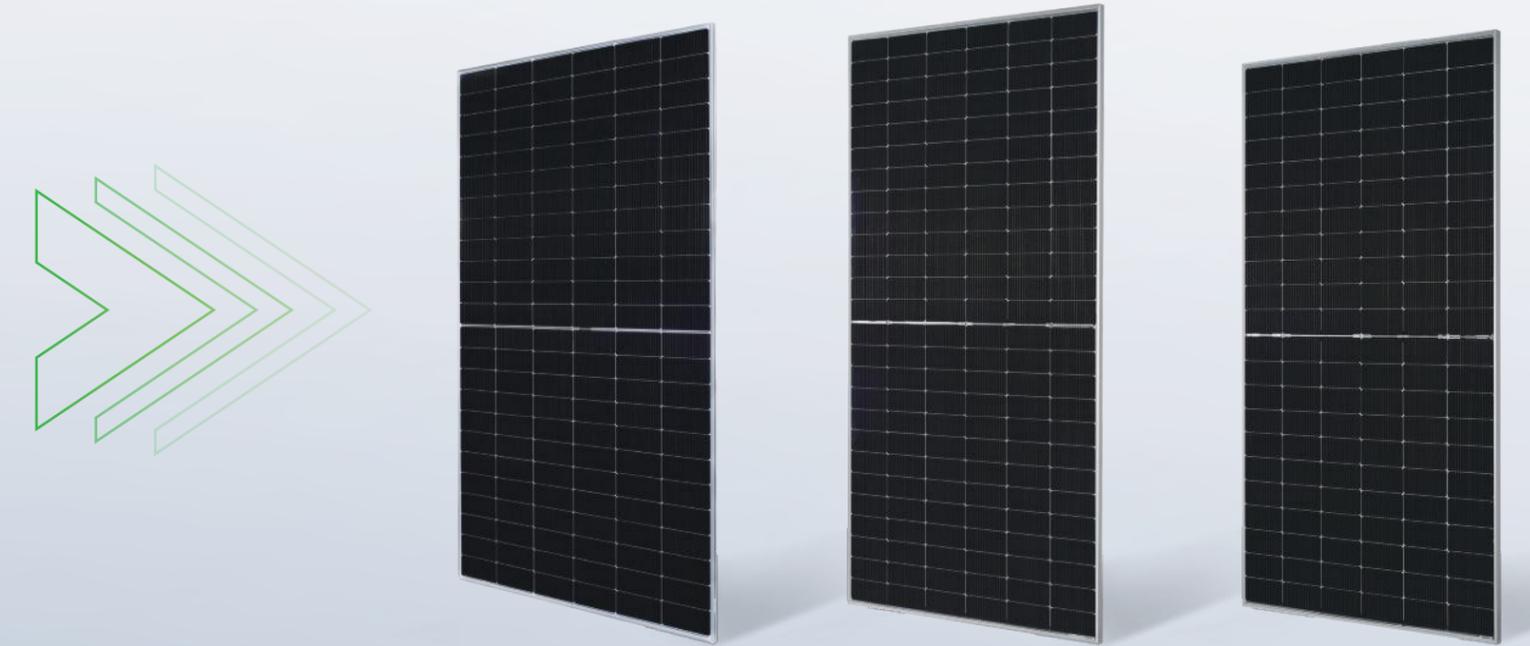
| | |
|--|---|
| Better Temperature Coefficient | Lower LCOE |
| 24.5%-25% Mass Production Efficiency | Low Degradation |
| <1% First Year Degradation | Better Weak Light Performance |
| 0.4% Annual Degradation | ≈80% Bifaciality |



Solar Modules



| Model | WH144P8 535-555W | DH108N12B 425-445W | DH120N8 460-480W |
|-------------------------------|---------------------|-----------------------|---------------------|
| Maximum Power at STC (Pmax/W) | 555Wp | 445Wp | 480Wp |
| Maximum Module Efficiency | 21.5% | 21.8% | 22.2% |
| Power Tolerance (W) | 0~+5W | 0~+5W | 0~+5W |
| Dimensions | 2278 × 1134 × 35mm | 1762 × 1134 × 30mm | 1908 × 1134 × 30mm |
| Applicable Projects | C&I Rooftop | Residential Rooftop | Residential Rooftop |



| Model | DH144N9 590-610W | DH156N8 600-625W | DH132H10 700-720W |
|-------------------------------|-----------------------|---------------------|----------------------|
| Maximum Power at STC (Pmax/W) | 610Wp | 625Wp | 720Wp |
| Maximum Module Efficiency | 22.6% | 22.4% | 23.2% |
| Power Tolerance (W) | 0~+5W | 0~+5W | 0~+5W |
| Dimensions | 2382 × 1134 × 30/35mm | 2465 × 1134 × 35mm | 2384 × 1303 × 35mm |
| Applicable Projects | Ground-mounted | Ground-mounted | Ground-mounted |



PV Project

» **100MW_p**

Ningxia Pingluo County
Centralized PV Project

» **50MW_p**

Jianhu County
Distributed PV Project

» **4.8MW_p**

Runergy Yueda
Distributed PV Project

» **3.4MW_p**

Zhongheng Pet Articles
Distributed PV Project

» **7.8MW_p**

Runergy Century
Distributed PV Project

» **5.5MW_p**

Runergy Jianhu
Distributed PV Project

» **3.0MW_p**

EPC of CHIN POON
Distributed PV Project

» **3.0MW_p**

Fengguan Distributed PV Project

Core Members

Dr. Tao LongZhong

Chairman and General Manager of Runergy

Founded in 2013 by Dr. Tao LongZhong, Runergy has flourished under his leadership as Chairman and General Manager. Dr. Tao has guided the company to produce high-efficiency, quality monocrystalline cells, earning a strong industry reputation. Runergy continues its rapid growth, significantly contributing to the global green power initiative.

Dr. Tao Longzhong has been engaged in photovoltaic research for many years and obtained multiple patents.

Core Members

Dr. Yang Yang



Chief Technology Officer of Runergy and President of the Photovoltaic Research Institute

Dr. Yang has published more than 50 academic papers as the first author or coauthor in journals such as Progress in Photovoltaics and Energy Procedia and applied for more than 40 patents. Dr. Yang Yang has presided over one key R&D program (key project) of Jiangsu Province as the project leader, participated in four national key projects, two achievement transformation projects of Jiangsu Province, and one international sci-tech cooperation program of Jiangsu Province as a technical Backbone. In 2022, the project "R&D of Large-area Efficient Rear-contact Crystalline Silicon PV Cell Technology Based on Passivated Contact" (BE2022036) led by Dr. Yang Yang was granted a provincial special fund for innovation in technologies for achieving carbon peaking and carbon neutrality in 2022.

Dr. Chen RuLong

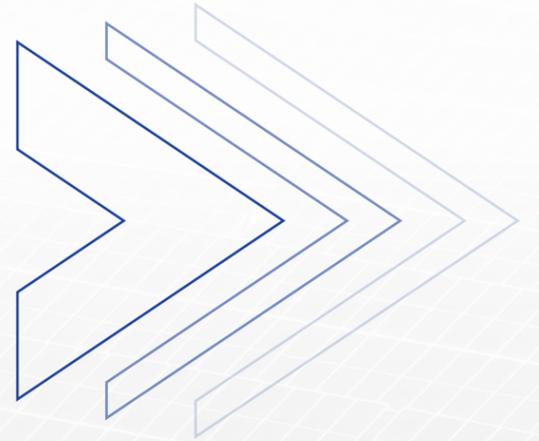


Vice President of Runergy Photovoltaic Research Institute

Dr. Chen Rulong, a distinguished technologist and academic, holds a doctoral degree and serves as a postgraduate supervisor. Recognized for his contributions in photovoltaic technology, he's a technical expert for China's Ministry of Science and Technology and a respected technopreneur in Jiangsu Province. As a visiting scholar at UNSW's Australian Centre for Advanced Photovoltaic and a key member of several technical committees, including IEC TC 82 and SEMI PV Standards, Dr. Chen's achievements include the SEMI Standards Special Contribution Award, contributions to the International Photovoltaic Quality Assurance Task Force, 14 authorized patents, and significant involvement in developing national and international standards.

Runergy Research Institute

The Photovoltaic Research Institute in Yancheng, China has been established with an investment of around 60 million USD. The institute is poised to become a global leader in research and development. It features several specialized laboratories, including ones for high-efficiency cells, physical characterization and simulation, chemical testing and analysis, as well as product reliability.



Partners

SHARING SUCCESS AND GROWTH WITH PARTNERS >>

>> Customers



国家电投
SPIC



国家能源集团
CHN ENERGY



中国华能
CHINA HUANENG



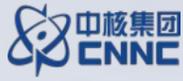
中国华电
CHD



中国电建
POWERCHINA



中国能建



中核集团
CNNC



YUDEAN



中国国电
CHINA GUODIAN



中国大唐集团有限公司
China Datang Corporation Ltd.



中广核
CGN



中国三峡
China Three Gorges Corporation



华能电力
CR POWER



中国节能
CECEP

>> Commercial Banks



HSBC

J.P.Morgan



UOB
大華銀行



Standard Chartered
渣打銀行



ธนาคารกสิกรไทย
KASIKORNBANK



招商銀行
CHINA MERCHANTS BANK



兴业银行
INDUSTRIAL BANK CO., LTD.



浦发银行
SPD BANK



中信銀行
CHINA CITIC BANK



交通銀行
BANK OF COMMUNICATIONS



中国邮政储蓄银行
POSTAL SAVINGS BANK OF CHINA



中国进出口银行
THE EXPORT-IMPORT BANK OF CHINA



中國銀行
BANK OF CHINA



中国农业银行
AGRICULTURAL BANK OF CHINA



華夏銀行
HUAXIA BANK

Sustainable Development

Since its inception, Runergy has produced a total of 50GW of photovoltaic products, annually generating 500 million kWh of clean electricity.

Runergy is committed to reducing the environmental impact of solar cell production through continuous, independent innovation. Collaborative efforts with Germany's Fraunhofer-ISE and Australia's UNSW propel sustainable technology advancement. The company's global strategy includes establishing production sites worldwide, creating jobs, upholding employee rights, and ensuring a transparent, high-quality supply chain. Moreover, Runergy maintains robust internal operations and transparency, backed by standardized management practices, to guarantee integrity in all its endeavors.

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