

About the Company

Shanghai Electric Hency Solar Technology Co., Ltd. was established in 2023 and belongs to Shanghai Electric Group (referred to as "Shanghai Electric").Shanghai Electric Hency Solar Technology Co., Ltd. focuses on providing efficient and clean photovoltaic products and services for the world, and is committed to becoming a global clean energy provider in many fields.

Located in Minhang District of Shanghai

20GW Capacity Plan

25.5% Cell Efficiency

30% Target Efficiency

Focus on core equipment products

Relying on Shanghai Electric's profound technical reserve, strong research and development strength and rich supply experience in the field of new energy, Shanghai Electric Hency Solar Technology Co., Ltd. builds efficient and reliable photovoltaic cells, photovoltaic modules and intelligent photovoltaic tracking support production capacity through independent research and development, and constantly actively expands domestic and foreign markets. We will continue to contribute to building a green, low-carbon and sustainable energy system.

- Parent company: Shanghai Electric Hency Solar Technology Co., Ltd. Subsidiary: Shanghai Electric Group Hency Solar Technology (Nantong) Co., Ltd. Located in Nantong City, Jiangsu Province
 - In the early years of the company's establishment, the company planned the production capacity of 20GW and gradually implemented the production capacity landing.
 - The efficiency of the first HJT cell can reach 25.5%, the efficiency level is the forefront of the industry, and it can fully participate in market competition.
 - The company will improve the target efficiency through continuous iterative updates of technical routes such as lamination and copper plating, and plans to increase the cell efficiency to 30% within 5 years.

Provide full scenario solutions

With its profound energy equipment manufacturing strength and excellent innovation ability, Shanghai Electric has been constantly innovating and making breakthroughs in the whole field of scenery fire hydrogen storage and realizing the application across scenes. It not only keeps improving in the traditional energy equipment manufacturing, but also actively arranges in the new energy field. According to different application scenarios and requirements, Shanghai Electric Hency Solar Technology Co., Ltd. provides customized "PV +"solutions to ensure that customers get the maximum benefit from the whole lifecycle investment in the energy field.



Large ground PV • solar-plus-agriculture • PV sandcontrol • Mountain PV • Thermal power + PV • PV+ coal mine

Distributed industry and commerce • BIPV • PV green park • PV transportation • Whole county PV • PV+ sewagetreatment

PHOTOVOLTAICS



MISSION Empower Global Industry Make Life Smarter

VISION

CORE VALUES

To Be a World-class Manufacturer Leading in Industrial Development

Strive for excellence Seek value innovation Pursue win-win cooperation Put customer success first

BRAND POSITIONING

A Provider of Green Smart Industrial System Solutions

上海电气集团股份有限公司

中国上海市四川中路110号(200002) No.110, Middle Sichuan Road, Shanghai PRC http://www.shanghai-electric.com



Core Products

Products



PV CELL • Creator Series HJT Cell

Type: SEC111821R18



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Excellent light absorption & passivation performance

Excellent attenuation performance and low light performance, ensure higher output power, effectively solve the problem of low light power generation below 600W/m2

Advantages:

SMBB

High cell efficiency (6)

ower temperature coeff

More power output in extreme environments

High Bifaciality

More efficient back generation gain

<u>111</u>

Leading double-sided Using the industry's leading double-sided microcrystal process,

the HJT cell is microcrystalline with amorphoussilicon to improve the conductivity

X Rectangular silicon wafer

Fully meet the needs of a variety of application scenarios

Low (LID) and (PID)

High power reliability

Sterling silver SMBB technology

High conductivity and high stability



Excellent power generation performance

The natural double-sided structure of the HJT cell can increase the double-sided ratio of the module to more than 90%, ensuring higher power output

Solar Module • Creator 1.0 series HJT

Advantages:

		SMBB Technology
		Cell light trapping and collection, less optical resistance losses, effect improving module pow and reliability.
	Ì.	>85% Bifaciality
		with significantly LCOE
		High reliability Industry-leading proce power warranty ensure efficient performance.



≤1% ≤0.30

Product Overvier:

Туре	Cell Size	Cell Orientatio	on Glass	Frame Color	Size(mm)	Power Range
SEC1-144D-xxxYS, xxx=590-610	G10	144	dual-glass	silver	2278*1134	590-610W
SEC2-132D-xxxYS, xxx=615-635	210R	132	dual-glass	silver	2382*1134	615-635W
SEC2-96D-xxxYS, xxx=440-460	210R	96	dual-glass	silver	1762*1134	440-460W
SEC2-96D-xxxYB, xxx=435-455	210R	96	dual-glass	black	1762*1134	435-455W
SEC1-132D-xxxYS, xxx=710-730	G12	132	dual-glass	silver	2384*1303	710-730W

Edgeless series

Unique structure design

• Full-screen design Anti-dust. Anti-snow

- Power generation gain 2-6%
- Operation, maintenance cost savings
- Higher anti-wind load
- Reducing hotspot risks
- Special clamp design, integrated installation solutions

"Edgeless" Design

Infinite Possibilitieseen

Solar Module • Pioneer 2.0 series TOPCon



Better temperature coefficient more stable power generation

Low Temperature Coefficients

ackside generation gain ficantly LCOE reduced.

Attenuation caused by PID is minimized through céll process optimization.

Anti PID

leading process and arranty ensure long-term

High reliability Lower LID/LETID attenuation.

Product Warranty Power Warranty

Meditator series

A module that thinks

• Power generation gain 10%-20% • Exceptional cost-effectiveness intelligent module costing only 0.1 RMB/W

more suitable for

bifacial dual glass module Intelligent shutdown

safe and reliable

• Smart platform for real-time diagnostic

• Intelligent positioning:

onvenient operation and maintenance



Advantages:

SMBB Technology Better light utilization and shorter current transmission distance less optical and resistance loss.

>80% Bifaciality

Greater backside generation gain with significantly LCOE reduced.

Low temperature coefficient

Better temperature coefficient more stable power generation

Attenuation caused by PID is minimized through cell process optimization.

Anti LID

Anti PID

N-type modules have nigher reliability and lower LID/LETID

<1% <0.375% 12 years 30 years Product Warranty Power Warranty

Туре	Cell Size	Cell Orientatio	on Glass	Frame Color	Size(mm)	Power Range
SEP2-156D-xxxYS, xxx=620-640	G10	156	dual-glass	silver	2465*1134	620-640W
SEP2-144D-xxxYS, xxx=580-600	G10	144	dual-glass	silver	2278*1134	580-600W
SEP2-144S-xxxYS, xxx=580-600	G10	144	single-glass	silver	2278*1134	580-600W
SEP2-108D-xxxYS, xxx=425-445	G10	108	dual-glass	silver	1722*1134	425-445W
SEP2-108D-xxxYB, xxx=420-440	G10	108	dual-glass	black	1722*1134	420-440W
SEP3-132D-xxxYS, xxx=605-625	210R	132	dual-glass	silver	2382*1134	605-625W
SEP2-132D-xxxYS, xxx=700-720	G12	132	dual-glass	silver	2384*1303	700-720W



Product Overview:

SEC Tracker 2P Higher power generation revenue



Compared with the fixed angle mounting, the tracker can increase the power generation revenue by 9%-15%, especially the revenue at the time of peak electricity price; The optional Shanghai Electric AI intelligent tracking controller can increase the power generation of the system by 1%~6%.

Stronger wind resistance e the problem of torsional stability, dampe (for 1P) and multi-push rod synchronous drive technology (for 2P) are used to improve the damping and torsional rigidity of the system, increase the natural vibration frequency and critical wind speed of the structure, reduce the dynamic wind load of the structure, and improve the wind resistance of the structur

• Lower system cost

Based on the wind tunnel test data, the structural depth optimization design was carried out. Synchronous drive technology increases structural torsional constraints, also provides opportunities for structural optimization, and makes torque distribution more uniform, which c elp customers reduce the size and number of pile ions and reduce system cost

Cleaning robot

PV system cleaning robot+ straddle carrier

High postion accuracy

- Intelligent scheduling Joint operation and
- control Wide communication
- mode
- Modular design

Compatible with multiple PSCRS







Full scenario solutions

Progress



Project example



绍兴嵊州250kWp光伏项目 Shaoxing Shengzhou 250KW PV project



上海汽轮机厂1.554MW光伏项目 Shanghai Electric Power Generation Equipment Co.,Ltd. Turbine Plant 1.554MW PV project

上海振华轴承厂一期0.9366MW光伏项目 Shanghai Zhenhua Bearing Works Co., Ltd. 0.9366MW PV project I



广东蔚盈科技1.2MW光伏项目 Guangdong Weiying Technology 1.2MW PV project