

# SolarSpace

EFFICIENCY, RELIABILITY, SUSTAINABILITY





# About US

The Manufacturing Expert of PV Cell and Module



# A Highly Reliable Solar Products Manufacturer

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SolarSpace was established in 2010, as a world leading solar cell and module manufacturer, concentrating on **high efficient solar-technology production** in China and overseas. We are the **top 4 leading solar cell manufacturer** and provide high quality solar modules with our core cell technology worldwide. SolarSpace is dedicated to empower solar solution and to be a true reliable supplier to our business partners around the world.

**30GW+**

Capacity of  
Solar Cell

**6GW**

Capacity of  
Solar Module

**TOP4**

Solar Cell  
Supplier

**1.8 Billion USD**

2022 Annual Revenue

**6000+**

Global Employees

## Stage 5

### Capacity Expansion of Solar Cell and Module

**2023** · Continue to expand the global production capacity, the cell production capacity is expected to reach 60 GW+, including TOPCon cell capacity 18 GW. Module production capacity reaches 6 GW.

**2022** · Chuzhou and Cambodia bases established and production capacity greatly increased, with a Solar Cell production capacity of 30 GW and a Solar Module production capacity of 4.5 GW at the end of the year

## Stage 4

### Started the PV Module Business

**2021** · The annual capacity of Solar Cells reached 12.5GW, and large-size Solar Cells accounted for more than 80%, ranking the fourth in the world in terms of Solar Cell shipments;  
· Solar Module production line established, with a production capacity of 4.5 GW

## Stage 3

**New Capacity for Large-size Solar Cells 2020** · Layout of large-size Solar Cells, with annual capacity of 10GW

## Stage 2

**Focus on Mono PERC Cell Manufacture 2019** · Suqian base established, with a high efficiency mono PERC cell production capacity of 5GW  
**2017** · Xuzhou base established, with a cell production capacity over 2 GW

## Stage 1

**Founded as a professional Solar Cell Manufacturer 2011** · Solar Cell mass production capacity achieve 0.2 GW  
**2010** · Company Established

# The World Leading PV Cell&Module Manufacturer



**5** Manufacturing Bases

**7** Intelligent Factories

**100+** overseas clients\*



\* Business in Germany, USA, India, Canada, Mexico, Korea, Italy, France, UK, Thailand, Korea, Vietnam, Jordan, Turkey, Tunisia, Armenia and other countries

Has been serving the global industry through SolarSpace technology embedded brands over a decade.



1H22 Cell shipment ranking		InfoLink
Rank	Company	
1	Tongwei	
2	Aiko	
3	Runergy	
4	Solar Space	
5	Jietai	



# Solar Module Partners



OEM manufacturer for major module manufacturers, able to produce modules at highest quality level and under strict quality standards.



中国建材集团有限公司  
China National Building Material Group Co.,Ltd.

DASOLAR®  
一道新能



JinkO  
Solar



CHNT  
正泰



krannich



A photograph of a data center aisle, showing rows of server racks on both sides of a central aisle. The floor is covered with a grid pattern, and the lighting is dim, creating a professional and technical atmosphere. The image is overlaid with a semi-transparent green filter.

# Why SolarSpace

Efficiency, Reliability, Sustainability

## More Than Just a Manufacturer

**Silicon**

**Ingot**

**Wafer**

- Stable Partnership with Leading Supplier
- Strict Quality Standards

**Cell**

**Module**

- Leading Product Technology and Highest Quality Level
- Superior Operation Efficiency

**Delivery**

**Service**

- Committed to Contract Fulfilment
- Vertical Core Supply Chain Secure 99.9% on-time Module Delivery
- Globally experienced Team offering Professional and Efficient Service

A large, dark green circle with a lighter green outer ring, containing the word "Efficiency" in white text. It is surrounded by several smaller, semi-transparent green circles of various sizes scattered across the light gray background.

**Efficiency**

A semi-transparent light gray circle containing the word "Reliability" in white text.

**Reliability**

A semi-transparent light gray circle containing the word "Sustainability" in white text.

**Sustainability**

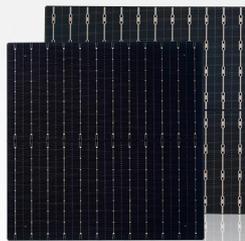
## M10 PERC / G12 PERC / M10 Topcon



**M10 Mono PERC  
Bifacial Cell**

Average efficiency  
of mass production

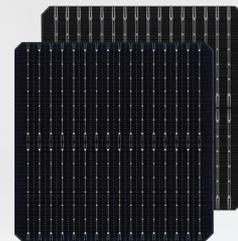
**23.3~23.5%**



**G12 Mono PERC  
Bifacial Cell**

Average efficiency  
of mass production

**23.2~23.4%**



**M10 N-type TOPCon  
Bifacial Cell**

Average efficiency  
of mass production

**24.8~25.3%**



Application of thinner wafer



Higher cell conversion efficiency



More energy in low light conditions



Outstanding temperature coefficient



Lower Cell Degradation



Excellent mechanical characteristics

## M10-PERC



SS8-72HD/HS-M

Max.Power Output **560W**

Max.Module Efficiency **21.5%**

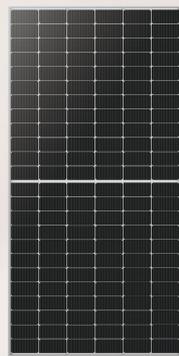


SS8-54HS/HSB-M

Max.Power Output **415W**

Max.Module Efficiency **21.3%**

## M10-N-TOPCon



SS8-72HS/HD-N

Max.Power Output **575W**

Max.Module Efficiency **22.3%**



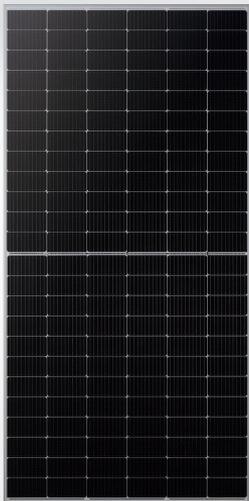
SS8-54HS/HSB-N

Max.Power Output **430W**

Max.Module Efficiency **22.0%**

## SS8-72HS 540-560M

Mono-Facial Module



-  High Power Output
-  High Reliability
-  More Power Generation
-  Great Adaptability

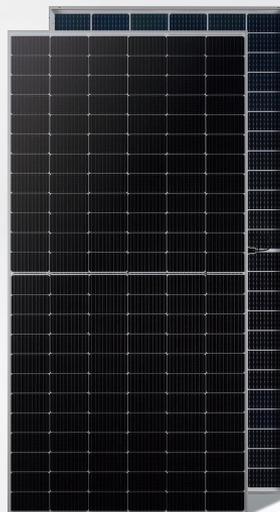
Max.Power Output **560W**

Max.Module Efficiency **21.7%**

Suitable For All Scenarios

## SS8-72HD 535-555M

Bifacial Dual Glass Module



-  High Power Output
-  High Reliability
-  More Power Generation
-  High ROI

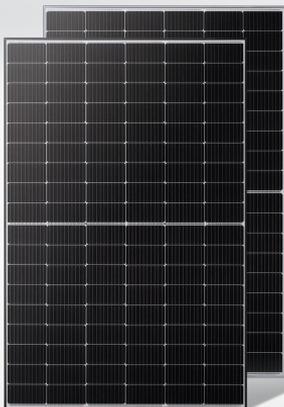
Max.Power Output **555W**

Max.Module Efficiency **21.5%**

Best Choice For Utility Project

## SS8-54HS 395-415M

Mono-Facial Module



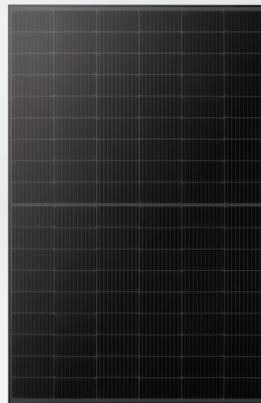
-  High Power Output
-  High Reliability
-  More Power Generation
-  Better Flexibility

Max.Power Output **415W**

Max.Module Efficiency **21.3%**

## SS8-54HSB 390-410M

All Black Module



-  High Power Output
-  High Reliability
-  More Power Generation
-  Aesthetic Design

Max.Power Output **410W**

Max.Module Efficiency **21.0%**

Best Choice for Rooftop Project

## SS8-72HS 555-575N

N-TOPCon Mono-Facial Module



Super Power Output



High Reliability



Extra power generation



Great Adaptability

Max.Power Output **575W**

Max.Module Efficiency **22.3%**

Suitable For All Scenarios

## SS8-72HD 550-570N

N-TOPCon Bifacial Dual Glass Module



Super Power Output



High Reliability



Extra power generation



High ROI

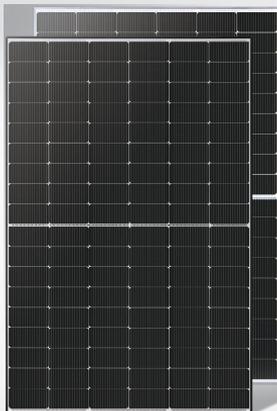
Max.Power Output **570W**

Max.Module Efficiency **22.1%**

Best Choice For Utility Project

## SS8-54HS 410-430N

N-TOPCon Mono-Facial Module



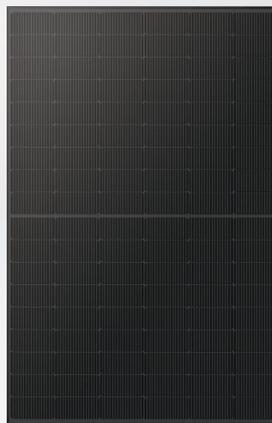
-  Super Power Output
-  High Reliability
-  Extra power generation
-  Better Flexibility

Max.Power Output **430W**

Max.Module Efficiency **22.0%**

## SS8-54HSB 410-430N

N-TOPCon All Black Module



-  High Power Output
-  High Reliability
-  More Power Generation
-  Aesthetic Design

Max.Power Output **430W**

Max.Module Efficiency **22.0%**

Best Choice for Rooftop Project



**140+**

Authorized Patents

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**3**

Achievements above the provincial  
and ministerial level

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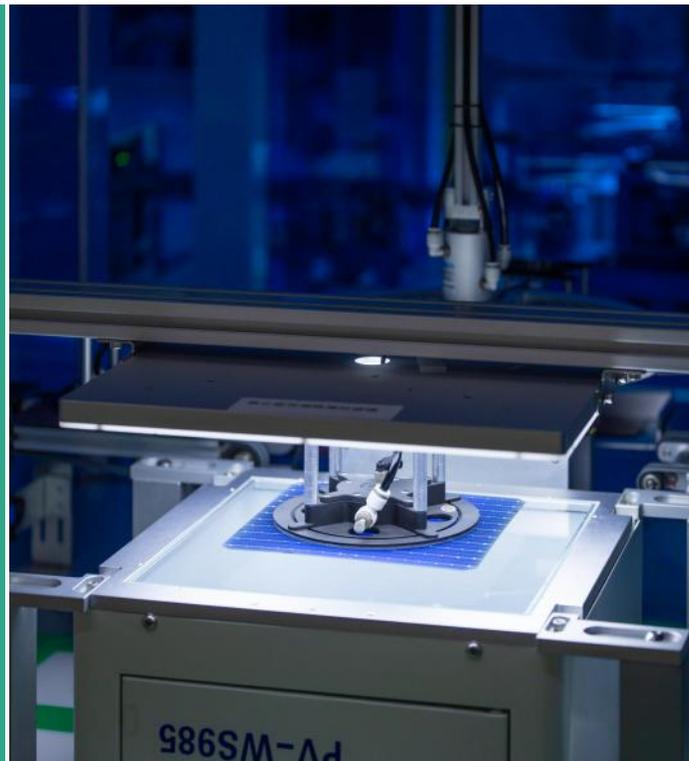
**500+**

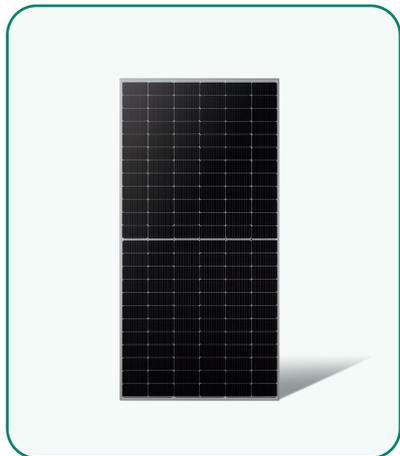
R&D & Technical Staff

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**3%+**

R&D Cost of Revenue





## 166 P-type PERC

72cells Bifacial Dual Glass  
For special market in the short term  
435-445W



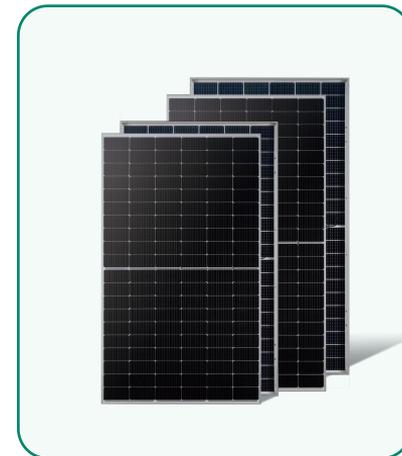
## 182 P-type PERC

Mainstream module products  
High Power + Cost-effective  
Rooftop + Utility



## 182 N-type TOPCon

High Power + Low Degradation  
Certification completed & small trail  
production @ 23 Q1  
Rooftop + Utility



## 210 P-Type PERC

For 600Wp+ high power demand  
Certification completed & has mass prod  
capacity @ 23 Q3  
Applicable to utility

# Solar Module Power Roadmap



M10 PERC 54cells

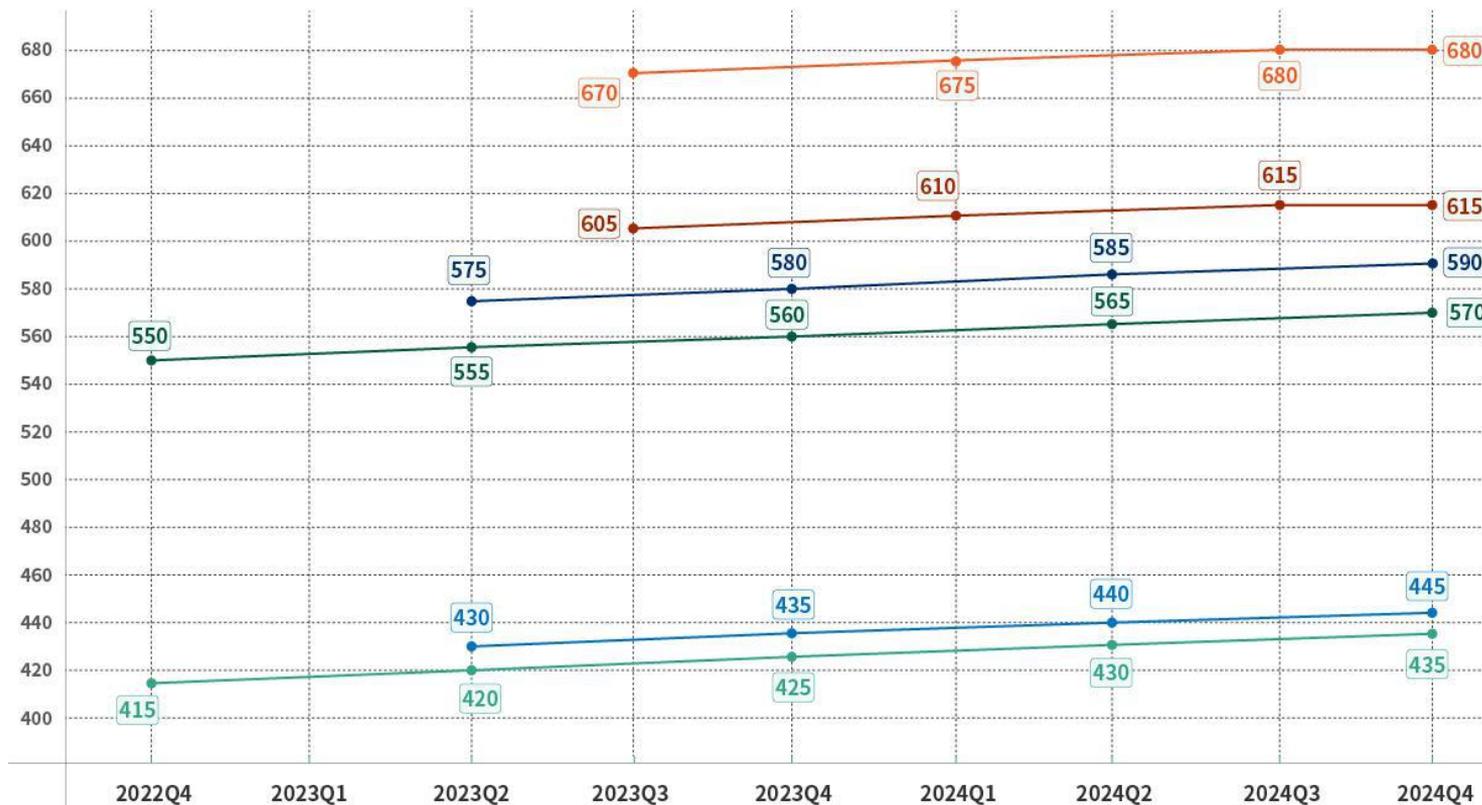
M10 PERC 72cells

M10 TOPCon 54cells

M10 TOPCon 72cells

G12 PERC 60cells

G12 PERC 66cells



A large, central green circle with a white border, containing the word "Reliability" in white text. It is surrounded by several smaller, semi-transparent green circles of various sizes scattered across the light gray background.

**Reliability**

A semi-transparent light green circle containing the word "Sustainability" in white text.

**Sustainability**

A semi-transparent light green circle containing the word "Efficiency" in white text.

**Efficiency**

Fully automatic production line to ensure the consistency of top quality.



**99%**

Production Yield



**16%**

Reduction of labor cost



**312**

Quality Inspections

# Effective Quality Management



SolarSpace believes “Quality Matters The Most”. We establish a strict quality management system starting from materials control, production management to delivery inspection, to ensure top product quality and reliability.

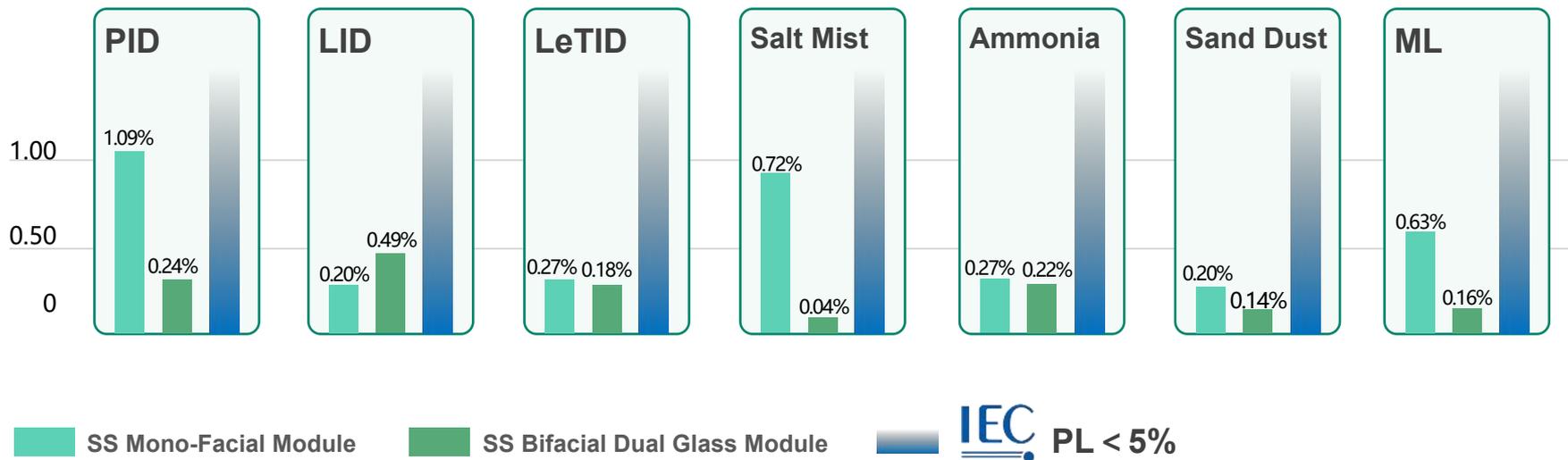
- ▶ Strict Supplier Management
- ▶ Standardized BOM selection
- ▶ Lean Manufacturing Process
- ▶ Comprehensive Quality System



## Complete System Certificates

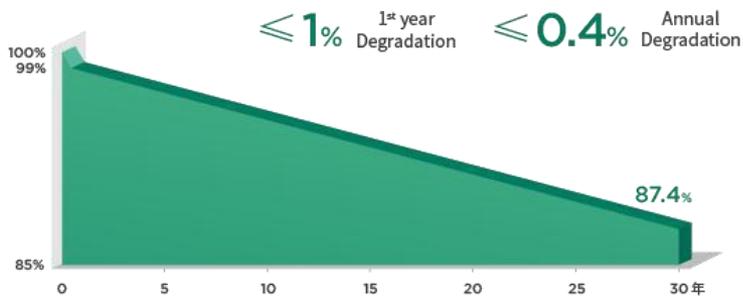
- ▶ IEC61701, IEC62716, IEC60068
- ▶ ISO9001: 2015: Quality Management System
- ▶ ISO14001: 2015: Environment Management System
- ▶ ISO45001: 2018: Occupational health and safety management systems

## Lower Degradation



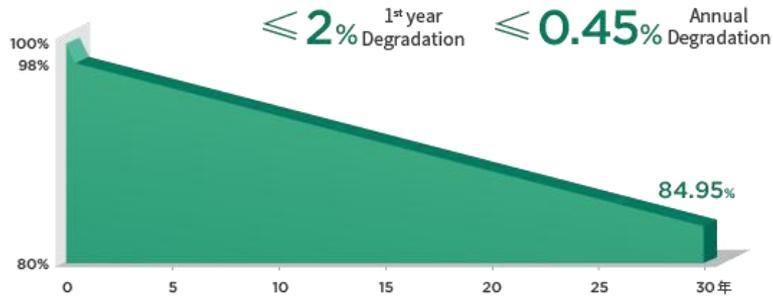
## Product Warranty

### TOPCON



12 Years Product Warranty 30 Years Linear Power Warranty

### PERC



12 Years Product Warranty 30 Years Linear Power Warranty

## Comprehensive Certificates





**100%**

Contract  
Fulfillment

**99.9%**

On-time  
Delivery

**1 to 1**

Customer  
Service

**12h**

Service  
Response

**< PPM 500**

Customer  
Complaint Rate

A central diagram with a large green circle containing the word "Sustainability". To its right are two smaller, semi-transparent circles containing the words "Efficiency" and "Reliability". The background is light gray with several other circles of various sizes and shades of green scattered around.

# Sustainability

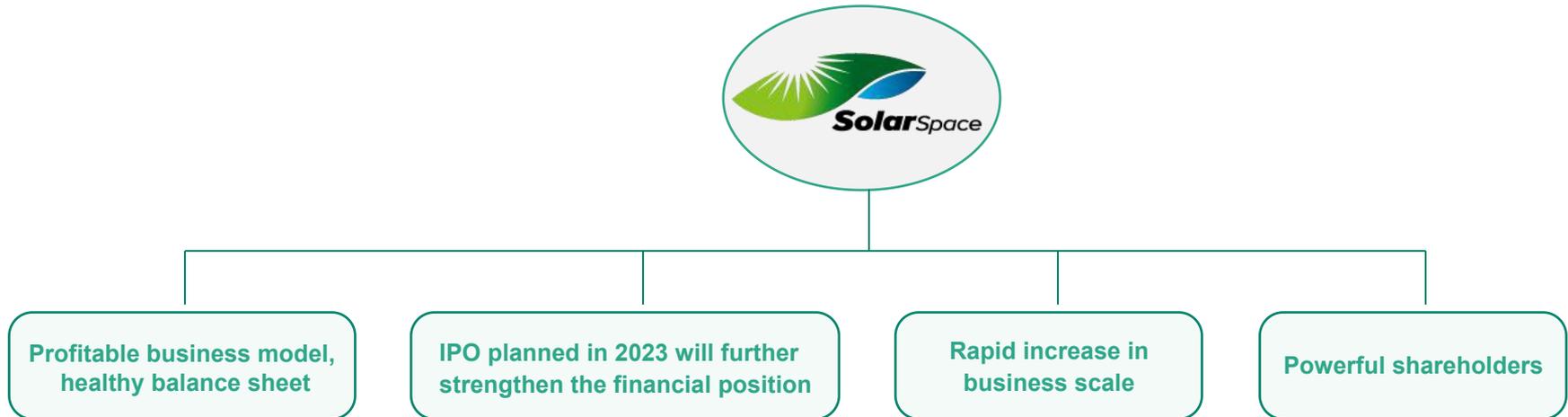
Efficiency

Reliability

# Healthy and Strong Financial Momentum



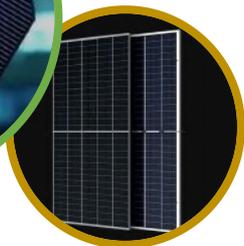
- ▶ Over several years, SolarSpace has consistently maintained an industry leading ability to mitigate risk and adapt to market changes.
  - ▶ The company prioritizes corporate financial health and stability
- 



We require each supplier to provide supplier statement, business license, purchase/sale documents, shipping records, production record, payment record for all our shipments.

## Silicon Material

Traceable raw material suppliers



## Silicon & Wafer

Cooperate with top suppliers

## PV Cell

Self produced high-quality PV Cell

## PV Module

Self Produced high-efficiency PV Module

- ▶ Green Manufacturing
- ▶ Charitable Donation
- ▶ Energy Conservation
- ▶ Emission Reduction

**40GW+**

PV Products shipments

**50+**

commonweal projects

**100%**

of the factory buildings are covered by PV modules

**23million**

tons carbon emmision reduction

EFFICIENCY  
RELIABILITY  
SUSTAINABILITY



# Case Study



Wulian County, Rizhao City, Shandong Province **200 MW**



Xilinhot, Inner Mongolia **47.5 MW**





# Thanks For Your Attention

EFFICIENCY / REALIABILITY / SUSTAINABLITY

**Contact us** | [sales@solarspacepower.com](mailto:sales@solarspacepower.com) [www.solarspace.cn](http://www.solarspace.cn)