

Unleash the Power of N-Type



Headquarters

Solar N Plus New Energy Technology Co., LTD.

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International Marketing & Sales Center

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Branch

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**TRUSTWORTHY
EXPERTS
IN RENEWABLE ENERGY**
Solar N Plus New Energy Technology Co., LTD

N-TYPE
TECHNOLOGY

SOLAR
CELL

SOLAR
MODULE

ENERGY STORAGE
SOLUTION

TRUSTWORTHY EXPERTS IN RENEWABLE ENERGY



Solar N Plus is a vertically integrated photovoltaic manufacturer with N-Typ technology at its core. The company's business portfolio encompasses photovoltaic solar cells, modules, power station development, and smart energy solutions.

Equipped with cutting-edge technology, advanced production facilities, and highly automated and intelligent processes, Solar N Plus stands at the forefront of the solar industry. Currently, it operates four major production bases in Chuzhou, Anhui; Baicheng, Jilin; Zhaotong, Yunnan; and Tongliao, Inner Mongolia, with a total PV capacity of 20GW, an energy storage capacity of 5GWh and an additional 10GW PV capacity under construction. It is also expanding into the energy storage sector with a 5GWh pack battery production line in Huzhou, Zhejiang.

Committed to delivering excellent products and services, Solar N Plus aims to exceed expectations and lead the industry toward a brighter, greener future. With top-notch products, comprehensive management systems, and exceptional service, Solar N Plus is poised to surpass 10 billion CNY in sales within its inaugural five years, contributing significantly to global sustainability efforts while providing unmatched value to its customers.

N-TYPE

N-Type
Technology

20GW

PV Capacity
(Completed)

10GW

PV Capacity
(Under Construction)

5GWh

Energy Storage
Capacity

ROBUST FINANCIAL OPERATIONS TO DRIVE EFFICIENCY AND GROWTH



PUBLIC COMPANY

Solar N Plus, a majority-owned subsidiary of Jiangsu Lanfeng Biochemical Co., Ltd. (stock code: 002513), stands as a trusted and robust player in the solar industry. With strategic guidance and financial strength from our parent company, Solar N Plus excels in delivering cutting-edge products and services.

- ☑ Excellent financial condition of a listed company
- 🏗️ No historical burden of outdated photovoltaic capacity, rapid development
- 🤝 Stable cooperation with banks and governments
- 🔄 Sustainable financing capability



DUN & BRADSTREET 5AA1 HIGH RATING

Solar N Plus has been awarded the prestigious "5AA1" rating in the Dun & Bradstreet after undergoing a rigorous evaluation.

This rating signifies its strong financial standing, reliable payment practices, and overall excellence in operations, positioning it as a trusted and reputable company in the industry.

- 📖 D&B Rating is 5AA1 (indicating Financial Strength: Registered Capital > 450,000,000)
- 🔍 Composite credit appraisal is 1 (Low Risk)
- ★ Failure score is 97, which indicates that subject's operational management and economic benefits are good and stable.

INTEGRATED MANUFACTURING EXCELLENCE

4

PV
Bases

1

Energy Storage
Base

Headquartered in Chuzhou, Anhui, Solar N Plus operates four state-of-the-art photovoltaic manufacturing bases in Chuzhou, Baicheng, Zhaotong, and Tongliao, as well as an energy storage production base in Huzhou, Zhejiang. Each facility is equipped with advanced intelligent automated production lines and real-time AI monitoring systems, ensuring optimal efficiency and uncompromising quality control.



CHUZHOU,
ANHUI

Cell

Module



BAICHENG,
JILIN

Silicon Wafer



TONGLIAO,
INNER MONGOLIA

Module



ZHAOTONG,
YUNNAN

Module



HUZHOU,
ZHEJIANG

Energy Storage

INTELLIGENT MANUFACTURING TO ENABLE SUSTAINABLE PRACTICES

Solar Cells Production Line

- 

Unmanned
Factory
- 

Intelligent
Diagnose
- 

Intelligent
Navigation
- 

MES
Control
- 3-Step

Outgoing
Quality Control
- 13-Step

Process
Quality Control



INTELLIGENT MANUFACTURING TO ENABLE SUSTAINABLE PRACTICES

Solar Modules Production Line

-  Unmanned
Factory
-  Intelligent
Diagnose
-  Intelligent
Navigation
-  MES
Control
-  EL
Test

ENERGY STORAGE SOLUTIONS DRIVING ADDED VALUE

Energy Storage Production Line

-  2 Battery Production and PACK lines
-  15 ppm Takt Time
-  3000+ Storage Stack Position
-  5 GWh Capacity
-  14000+m² Warehouse square area

INDUSTRY-LEADING TECHNOLOGY TEAM



DU YOUWEI
ACADEMICIAN,
SENIOR CONSULTANT

- Professor at the Department of Physics, Nanjing University, and a doctoral supervisor
- Academician of the Chinese Academy of Sciences
- Vice Chairman of the Professional Committee of the Chinese Physical Society
- Member of the Committee of the Chinese Electronics Society
- Fellow of the Chinese Electronics Society
- Deputy Director of the China Instrument and Materials Society
- Director of the Nanoscience and Technology Research Center at Nanjing University
- Chief Scientist of the National 973 Program in Nanomaterials Science



PH.D. LU ZHONGLIN
CTO

- Ph.D. in Physics from Nanjing University
- 16 years of experience in the solar energy industry
- Undertaken several major scientific and technological research projects, including the National 863 Program and the National Natural Science Foundation
- Published over 30 high-quality SCI academic papers
- Filed and obtained nearly 200 patents.
- Selected for various provincial and municipal high-level talent programs
- Served as a technical committee member of the China Photovoltaic Standardization Committee

LEADING-EDGE R&D CAPABILITIES

Solar N Plus heavily invests in material testing and product development. Our in-house laboratory, certified by an international third-party authority, streamlines the process of bringing new products to market, saving both time and costs while systematically enhancing our testing capabilities and quality control.

Solar N Plus places a high value on technological research and development. As a testament to this commitment, 5% of our sales revenue is invested in R&D initiatives. Additionally, 25% of our total workforce is comprised of research and development professionals.

TÜV NORD Witness Laboratory

LeTID Test
EL image testing
Thermal Cycling Test
Damp Heat Test
Humidity Freeze Test
PID Test

7
7 of the employees
hold Ph.D. degrees

Measurement of maximum power
Wet Leakage Current Test
Insulation Withstand Voltage Test
Grounding Test
Static Load Test

80%
80% of the R&D team
members have masters' degrees or above

TÜV NORD CTF Laboratory

5%
5% of the sales revenue
is invested in R&D

200+
Patents

SOLAR CELL

TOP-CLASS N-TYPE CELLS FOR SUSTAINABLE ENERGY SOLUTIONS

At Solar N Plus, we understand that our customers want solar products that not only perform well but also offer long-term value.

That's why we take great pride in producing PV cells and modules that meet and exceed industry standards for efficiency and reliability.



Excellent power generation performance
under low irradiation



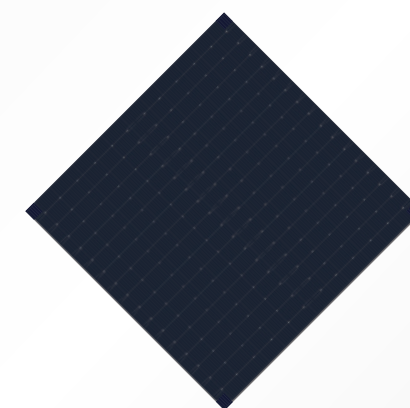
Higher cell
conversion efficiency



Low
temperature coefficient

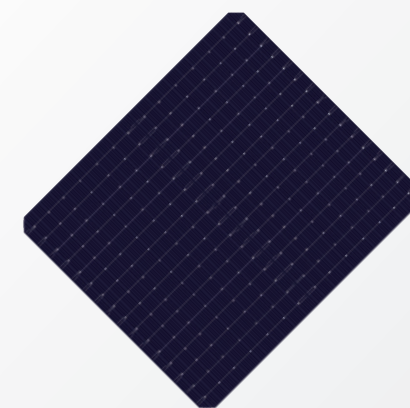


No light-induced
degradation



**N-TYPE
182.2×183.75MM
SOLAR CELL**

25.5% Cell Efficiency
80%+ Bifaciality
130μm Thickness
High resistance of PID
0 LID
Power temperature coefficient $\leq -0.31\%/K$



**N-TYPE
210×182.3MM
SOLAR CELL**

More power output
25.5% Cell Efficiency
130μm Thickness
High resistance of PID
0 LID
Power temperature coefficient $\leq -0.31\%/K$

SOLAR MODULE

SUITABLE
FOR DIVERSE SCENARIO
REQUIREMENTS

420-750W



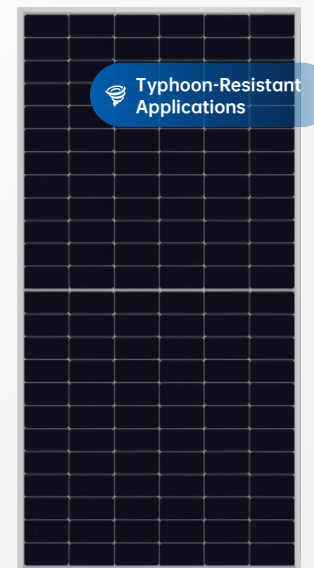
**COMPOSITE FRAME
SOLAR MODULE**

- Saltwater Resistant, Fearless in Harsh Environments
- Super Stability, Withstand the Intense Pressure
- Superior Insulation and PID Resistance, with Enhanced Safety
- The Top Choice for Low-Carbon
- Artistic Appearance



**N-TYPE
SOLAR MODULE**

- Superior double-sided power generation performance
- Better temperature coefficient
- Super multi busbar technology
- Minimizes hot spot effects
- Low attenuation, long warranty
- High module conversion efficiency



**STEEL FRAME
SOLAR MODULE**

- High mechanical load capacity
- Enhanced tear resistance
- More solid structure
- Higher cost performance

ENERGY STORAGE SOLUTION

ENERGY STORAGE SOLUTION

RESIDENTIAL STORAGE ENERGY



Single-Phase
All-in-One Machine



Three-Phases
All-in-One Machine

C&I STORAGE ENERGY



Energy Storage Liquid-Cooling
Integrated Machine

UTILITY-SCALE STORAGE ENERGY



20-Foot Cabin Energy Storage
Liquid Cooling System

STRICT QUALITY CONTROL TO ENSURE PRODUCT EXCELLENCE

Solar N Plus takes pride in its commitment to product excellence, and achieves through a comprehensive certification system. Every step of our production process undergoes rigorous testing, ensuring that our solar products meet the highest quality standards. We partner with globally recognized certification organizations, renowned for their stringent criteria and industry expertise.

These authoritative certifications provide a deal of guarantees, assuring customers of the reliability and superior quality of Solar N Plus products. We understand the importance of stability and long-term returns for our customers, which is why our meticulous certification process is designed to protect their investment.

Based on an excellent management system, Solar N Plus has received certifications for Quality Management System (ISO 9001: 2015), Environment Management System (ISO 14001: 2015), and Occupational Health and Safety Management System (ISO 45001: 2018), which demonstrates not only our healthy company system but also the trustworthy product quality.



GREEN ENERGY SOLUTION PLATFORM

Solar N Plus is dedicated to the development of green energy. In addition to its core business of manufacturing photovoltaic cells and modules, Solar N Plus also ventures into solar power plant investment, design, operation, and smart distributed energy solutions. The company is committed to establishing a global platform for new energy generation solutions.

SOLAR PV
POWER
PLANT
INVESTMENT

EPC

SMART
DISTRIBUTED
ENERGY
SOLUTIONS

ZERO
CARBON
PARK



GLOBAL PROJECTS

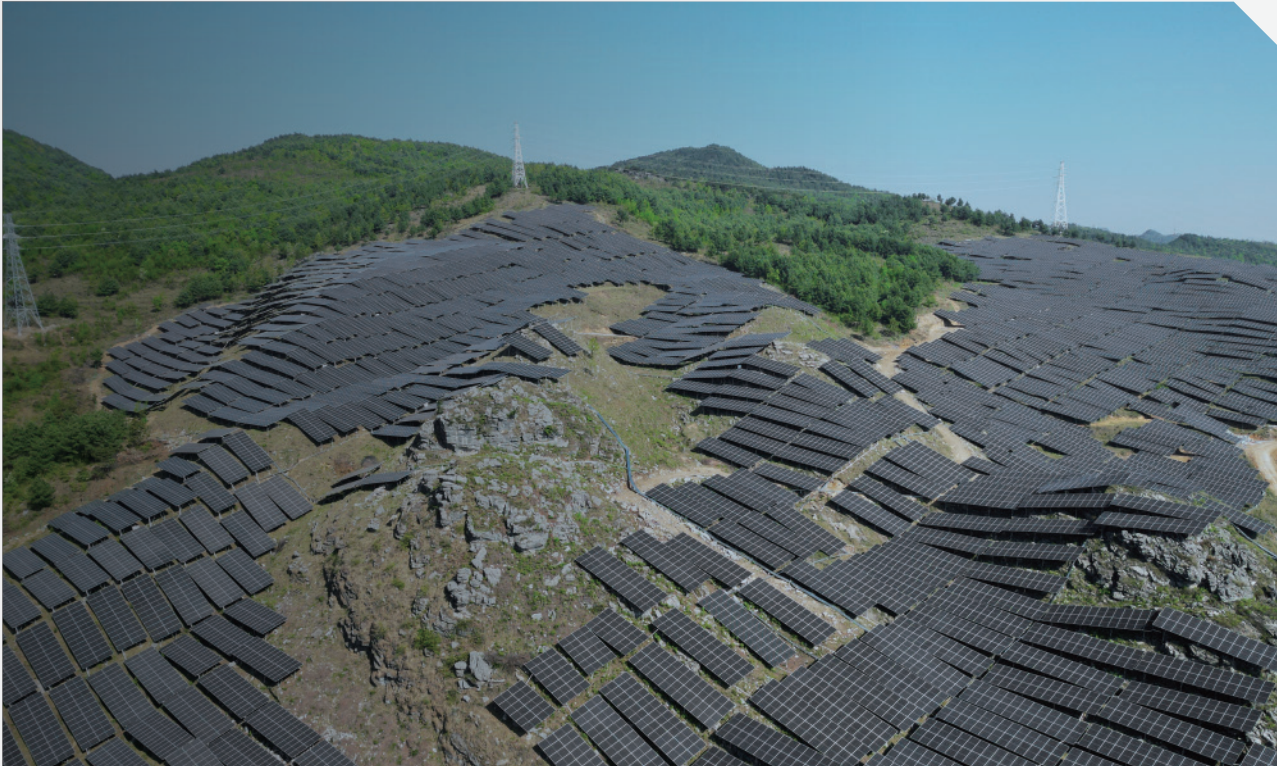
200MW

📍 Project Location: Guizhou, China

📋 Module Type: Solar N Plus N-Type 575W

📅 On-grid Date: 2023.12

GLOBAL PROJECTS



98MW
📍 Project Location: Guizhou, China
📋 Module Type: Solar N Plus N-Type 575W
🕒 On-grid Date: 2024.3



300MW+
📍 Project Location: Brazil
📋 Module Type: Solar N Plus N-Type 580W
🕒 On-grid Date: 2024.1-2025.6



6.61MW
📍 Project Location: Hungary
📋 Module Type: Solar N Plus N-Type 580W
🕒 On-grid Date: 2023.11



27.6MW
📍 Project Location: Suqian, China
📋 Module Type: Solar N Plus N-Type 580W
🕒 On-grid Date: 2023.2



10.2MW
📍 Project Location: Chuzhou, China
📋 Module Type: Solar N Plus N-Type 575W
🕒 On-grid Date: 2024.10

GLOBAL PROJECTS



300MW+

📍 Project Location: Kyushu, Japan

📋 Module Type: Solar N Plus N-Type 435W

📅 On-grid Date: 2024.1-2024.12



25MW

📍 Project Location: Romania

📋 Module Type: Solar N Plus N-Type 630W

📅 On-grid Date: 2025.10



275MW

📍 Project Location: Shandong, China

📋 Module Type: Solar N Plus N-Type 575W

📅 On-grid Date: 2024.6



40+MW

📍 Project Location: Syria

📋 Module Type: Solar N Plus N-Type 580W

📅 On-grid Date: 2024.5



20MW

📍 Project Location: Lujiang, China

📋 Module Type: Solar N Plus N-Type 560W

📅 On-grid Date: 2023.4

GLOBAL BUSINESS NETWORK

FLEXIBLE SERVICES TO MEET DIVERSE CUSTOMER NEEDS



MARKETING SUPPORT

We offer co-marketing initiatives to enhance your brand awareness and reach a wider audience.



TECHNOLOGY SUPPORT

Our dedicated technical team provides professional expertise to help you maximize the benefits of your projects and ensure seamless implementation.



MARKET ANALYSIS

Our experienced team of analysts keeps you updated with the latest market trends, providing valuable insights and accurate forecasts to support your decision-making.



CUSTOMER SATISFACTION SURVEY

We demonstrate a willingness to listen to customer feedback, understand your unique requirements, and provide solutions that best align with your needs.



24-HOUR RESPONSE

We are committed to providing timely assistance and addressing any warranty calls or concerns around the clock, ensuring your peace of mind.



TAILOR-MADE RECOMMENDATIONS

Our experienced sales staff offers expert consultation and personalized recommendations tailored to your specific needs and requirements, ensuring that you make informed decisions and achieve optimal results.



ACCESSIBLE SUNSHINE FOR ALL

By adopting an open-minded approach, conducting business with respect, and prioritizing mutual benefit, we foster win-win cooperation.

With our top technical team in the PV industry, we trailblaze in the development of ultra-high efficiency N-type solar cells and modules.

Our commitment to advanced technology allows us to provide excellent products that lead the industry, constantly innovating to ensure outstanding quality and customer success.

Through these efforts, we strive to make sunshine accessible for all.

MISSION

Unceasing Innovation; Our Excellence Achieves Your Success.

VISION

Fresher Air and a Better World.

CORE VALUES

Integrity, Efficiency, Partnership, and Collaborative Success.