



ASTRONERGY



About Astronergy



Operation

As a green manufacturing enterprise, Astronergy implements low-carbon actions through every PV module, practices green behaviors through every employee, and guides our partners in the PV industry chain to build a sustainable ecology together.



Products

Astronergy uses large-size wafers for all of its modules and actively promotes the use of thinner wafers, fluorine-free backsheets, etc., to continually improve module efficiency and reduce the carbon emissions and energy consumption of ASTRO N series modules.



Customer

Astronergy always puts customers' needs first and focuses on communication and cooperation. We are constantly looking for new ways to better serve our customers with more convenient services and sustainable products.



Employee

Astronergy is deeply committed to employee welfare and implements various initiatives in recruitment, training and corporate culture, emphasising equal opportunities and respecting employees from different backgrounds.

International Initiatives



Committed to
Sustainability Strategy



5.82 tce/MW
Energy Consumption
Intensity Per Unit of Cell
Production (↓ 15.73% YoY)

1.30 tce/MW
Energy Consumption
Intensity Per Unit of Module
Production (↓ 18.78% YoY)



221 Billion kWh
Green Electricity
Generation

**Total Global Shipments:~170GW+



24.79 tons/MW
Water Consumption
Intensity (↓ 28.64% YoY)

241 Employees
Completed
Higher Education



ASTROENERGY

Key Figures in 2025

17.25%
Female Managements
(↑ 4.42% YoY)



Solar The Future
Around **0.53** million
USD donated, benefiting
695 students

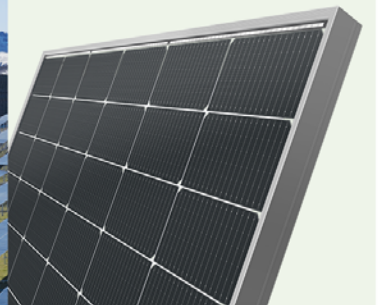


All Core Suppliers
Obtained
ISO 45001/14001
Certification

Construction of
35 Eco-power
Plant Projects



30 Main Products
Product
Life Cycle Assessments



Certification





ZERO BY 2050

Full Value Chain
Carbon Neutrality

Sustainability Strategy

2035
Year

100
Eco-power Plant

40%
Female Employee
Proportion

100%
Operate With
Renewable Energy

1,000
Employees Gain Support For
Their Continuous Education

30%
Female Senior Management
Staff Proportion

100%
Core Suppliers Obtained
ISO 14001/45001 Certification

10,000
Farmers Gained Help For
Income Increase

30%
Female Technician
Proportion

90%
Product Recycling
Rate

0
Landfill Waste

8
Zero Carbon Factories

1st
Zero Carbon Factory

CRE4 ECS
French Carbon Footprint Certification

100%
Key Suppliers Conduct Due Diligence And
Environmental & Social Impact Assessment

100%
Management Members' Remuneration
Linked To ESG Performance

2028
Year

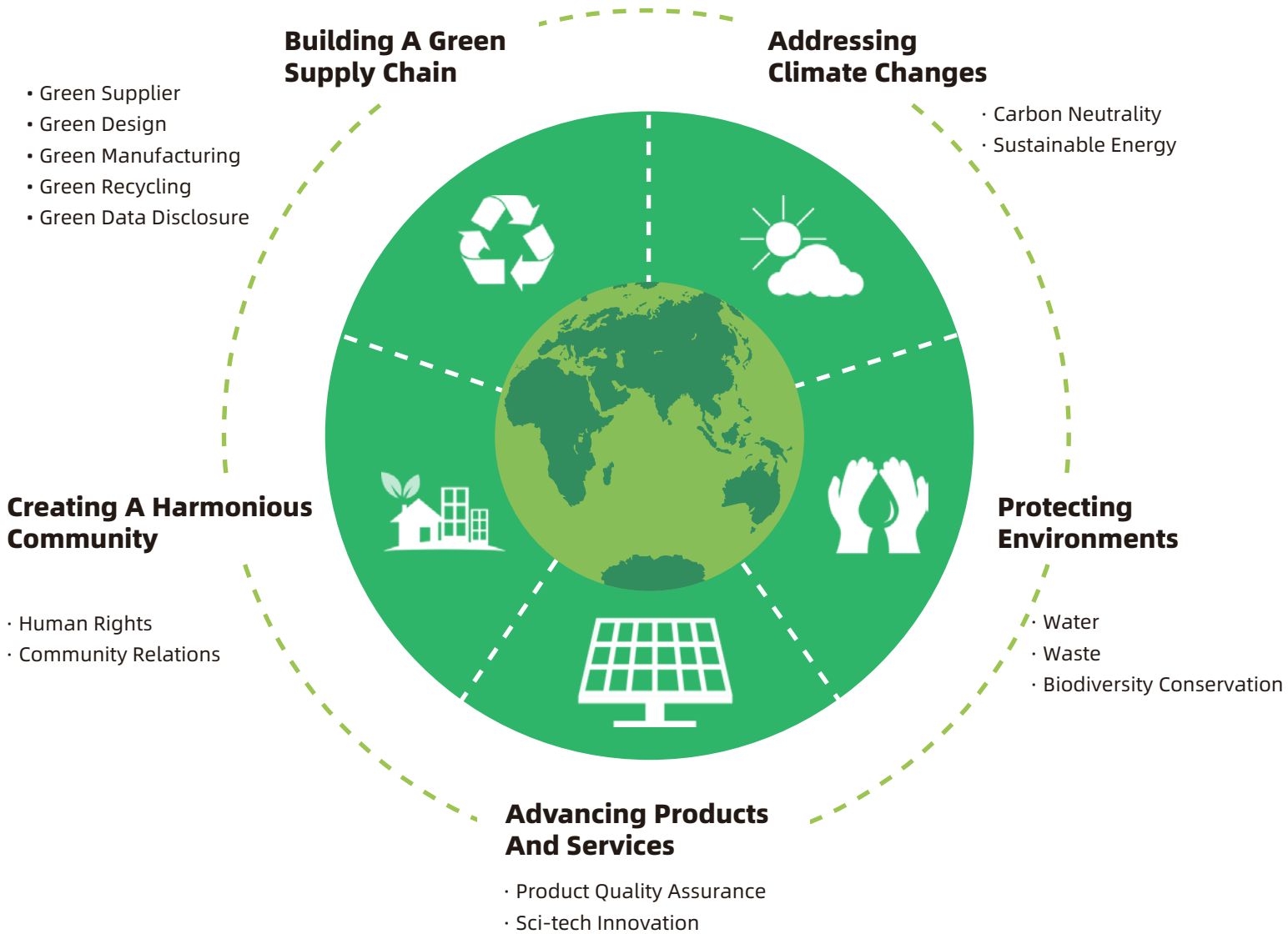
2023
Year



Download Astronergy
ESG Report

Sustainability Approach

As a clean energy industry involver, Astronergy is still on its way to practicing its vision of creating a sustainable and net-zero carbon world with solar power. We believe, with combined efforts, we can contribute to a green, sustainable life in the near future and realize the harmonious co-existence between humans and nature.





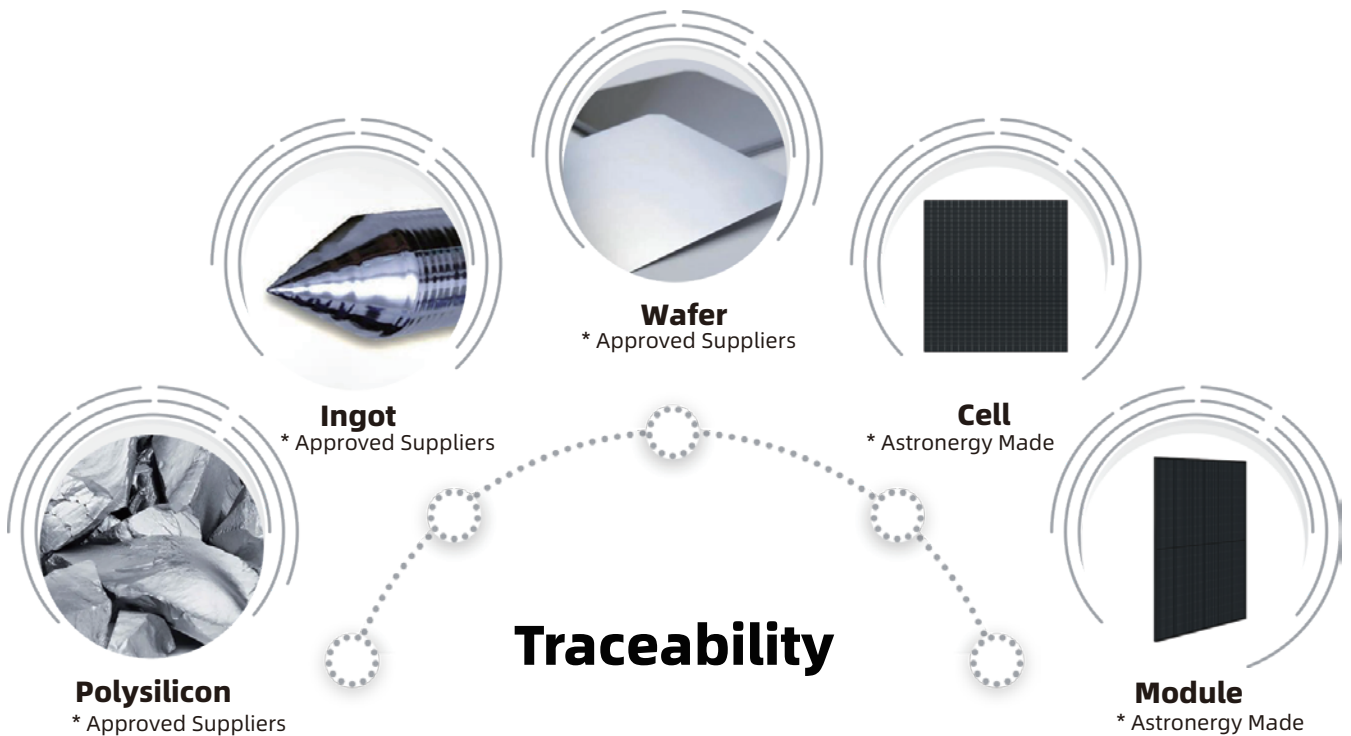
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Building A Green Supply Chain

We shoulder our responsibility to outline a green supply chain management system, to minimize the environmental impact of every step of our manufacturing.



Astronergy has developed a comprehensive traceability system to ensure product quality, which covers all aspects of the supply chain from upstream suppliers to finished products, showing our superior product reliability and corporate responsibility as an industrial benchmark.



Third-Party Audits



Green Supplier

Astronergy emphasizes the responsible sourcing of raw materials and partnerships with environmentally responsible suppliers.



First Company Enabling Automatic 'AI Detection of EL Defects'

Green Manufacturing

Astronergy enables the intelligent monitoring and traceability in the production process from raw materials to finished products.



Automated Guided Vehicle (AGV)
95% Automation Rate

Green Recycling

Astronergy believes that green recycling plays a vital role in promoting a circular economy, in which resources are used effectively.

100% 

Recyclability rates of aluminum frames, glass, and junction boxes

95% 

Recyclability rate of PV cell

80% 

Recyclability rate of PV ribbons



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Addressing Climate Changes

We take addressing climate change as an important issue and practice actions to promote green transformation through our daily operations.



Leveraging a green supply chain management system encompassing five key dimensions—green design, green production, green suppliers, green recycling, and green information disclosure—Astronergy continuously reduces the carbon footprint of its PV module products.

Carbon Footprint

350 kgCO₂e/kWc

Carbon Footprint - Certified by Certisolis (2025)

Astronergy constantly reduces carbon emissions from company production and operations. Astronergy's Jiuquan Base successfully obtained the Zero-Carbon Factory Certification from TÜV Rheinland, becoming the second zero-carbon factory after the Yancheng Base (Phase I).

Zero Carbon Factory

100% Renewable Energy
100% GHG Offset

Jiuquan Base - Construction Phase



Protecting Environments

We endeavour to reduce waste, conserve water and contribute to a biodiverse environment through our operations.



Astronergy facilitated the successful grid connection of the Aquaculture-PV complementary project on Dengbu Island, Zhejiang Province. This project adopts an innovative model of power generation on PV panels and farming beneath them, achieving green energy production while providing natural shading conditions for mud crab farming.

Biodiversity Conservation

74MW

Project Installed Capacity

To improve water use efficiency, Astronergy's Fengyang, Jiuquan, and Yueqing bases implemented retrofits to recycle and reuse water from their air conditioning systems. The project collects and treats the discharged water for reuse, effectively reducing freshwater consumption.

Conservation of Water Use

500,000 tons / RMB 2.55 million

Water Saved & Cost Reduction (Fengyang, Jiuquan & Yueqing Bases)



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Creating A Harmonious Community

We not only pursue harmony and peace within the enterprise, but also hope to influence the society with more innovative PV+ concepts to accelerate green development.



'PV+' Public Education

Astronergy has initiated a public education center for promoting eco-friendliness, which has attracted hundreds of kids and their families come to manufacturing bases to get inspirations for a sustainable and eco-friendly future.

Homing Program

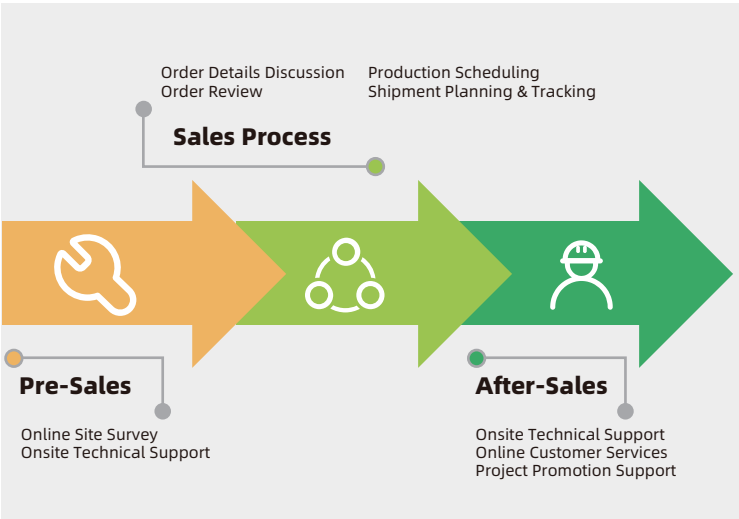
Astronergy fully protects the rights and interests of employees, creates a culturally-integrated working environment like 'Homing' event, and provides employees with broad career development opportunities.





Advancing Products And Services

We keep innovating and striving for technological advancements in a rapidly evolving industry landscape, delivering products & services that help our customers with their sustainable development.



One-Stop Service

Astronergy is constantly improving its customer service and establishing a one-stop shop to ensure flexibility, credibility and quick action.

Leading Technology

Astronergy holds a leading position in n-type TOPCon technology. Its main product series – the ASTRO N7 Pro, ASTRO N7 3.0, and ASTRO N7s 3.0 – utilize TOPCon 5.0 solar cell technology and incorporate more environmentally friendly materials.



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