



Chint New Energy Technology Co., Ltd. (brand: **Astronergy**), founded 2006, is among China's pioneering n-type TOPCon manufacturers. With **130 GW+ cumulative module shipments** and products exported to **140+ countries**, Astronergy combines scale, bankability, and a credible ESG programme — three things that matter most when specifying panels for residential and commercial projects.

### 130 GW+

Cumulative modules shipped

### 140+

Countries & regions served

### 26.4%+

TOPCon cell efficiency (mass production avg)

### Tier 1

BloombergNEF bankability rating

### 8x

Kiwa PVEL Top Performer (consecutive years)

### Gold

EcoVadis group-level sustainability medal

#### Product Quality & Reliability

- ISO 9001 — 100% of production sites certified
- ASTRO N series: n-type TOPCon 4.0 technology; flagship N8 rated to 720 W
- World's first 2000 V high-voltage module cert. issued by TÜV Rheinland
- Kiwa PVEL 'Top Performer' for 8 consecutive years
- 'Overall Highest Achiever' awarded by RETC (USA)
- 0 major quality/safety incidents in 2024; 0 product recalls
- Customer satisfaction: 97.37/100 (4th consecutive annual increase)
- 100% customer feedback response within 24 hrs; 100% closed-loop resolution

#### Bankability & Financial Robustness

- Rated Tier 1 PV Module Maker by BloombergNEF
- Consistently upper-tier in PV ModuleTech quarterly bankability rankings
- First 'Gold Trust Mark' awarded by Ariel Re (insurance underwriter standard)
- Stable financing strength — supports long-term warranty commitment

#### Certifications Installers Are Asked About

- ISO 9001 · ISO 14001 · ISO 45001 · ISO 50001 · ISO 27001
- ISO 37001 (Anti-Bribery) · ISO 37301 (Compliance Management)
- SA8000 Social Responsibility — 60% of main sites certified
- SSI Solar Stewardship Initiative — Silver ESG site certification
- WEEE compliant in 10 major European countries + PV CYCLE global certs
- EU RoHS & REACH compliant; French ECS (PPE2 & PPE2v2) certified

#### Carbon & Environmental Performance

- Scope 1+2 carbon intensity per module: 6.47 tCO<sub>2</sub>e/MW — down 25% YoY; down 35.9% vs 2022
- Target: carbon neutral operations by 2035; full value-chain neutral by 2050
- 2 factories Zero-Carbon certified (Yancheng & Jiuquan); target 8 by 2028
- 184 energy-saving projects in 2024 — saving ~122 million kWh
- 38 products hold ISO 14067 carbon footprint cert.; EPD certified (IT/SE/NO/DK)
- 96.23% non-hazardous waste recycling rate; zero landfill for non-hazardous waste
- Water intensity: 34.74 t/MW — down 37.7% since 2022
- CDP Climate Change Score: Level B | EcoVadis Gold Medal (top 5% globally)

#### Supply Chain Transparency

- 100% of 177 core raw material suppliers audited on-site in 2024
- 100% of core suppliers certified ISO 45001 & ISO 14001
- 32 suppliers hold national Green Factory qualification
- First PV module supplier using domestic silicon to pass full CBP (US Customs) traceability review
- Full-chain traceability from module to quartz via MES, SAP & WMS systems
- 100% conflict mineral due diligence on all PV ribbon suppliers; zero violations
- UN Global Compact 'Forward Faster' signatory; SBTi committed

#### Social & Labour Standards

- 0 incidents of discrimination, harassment, forced labour, or child labour
- 100% collective bargaining agreement coverage across all sites
- 100% human rights training coverage incl. security personnel
- Employee satisfaction: 83.93/100 — rising for 4 consecutive years
- UN Women's Empowerment Principles (WEPs) — global signatory
- 8,586 employees; 193 employees with disabilities actively employed