



# 2024 ANNUAL REVIEW

## Chapter 2: Successful Bids & Project Construction

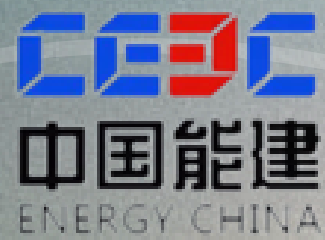


2024 marks a year of fierce competition in the photovoltaic industry and rapid growth for heterojunction technology.

As an industry leader, Huasun has made significant strides through **innovation** and **market expansion**. This not only reflects Huasun's drive for progress but also serves as a vivid testament to industrial advancement toward high-quality development in the heterojunction sector.



中国绿发  
CGDG



中国能建  
ENERGY CHINA



中国电建  
POWERCHINA  
华东院



中国电建

# 10+ GW

Huasun succeeded in securing **over 10 GW** HJT modules procurement bids, more than half of the total 20 GW in China.



中国华能  
CHINA HUANENG



中核集团  
CNNC

# 12.47 CENTS/W

Huasun won a **200 MW** bid from China SDIC at the competitive price of **USD 12.47 (RMB 90.5) cents per watt.**

Key Chinese state-owned companies are placing significant emphasis on **heterojunction** technology in their project bids, underscoring its increasing importance in the solar industry.

## 01 Unprecedented Flagship HJT Product



### RECORD-BREAKING HIGH!

Himalaya G12-132

**768.938W**<sup>Power</sup>

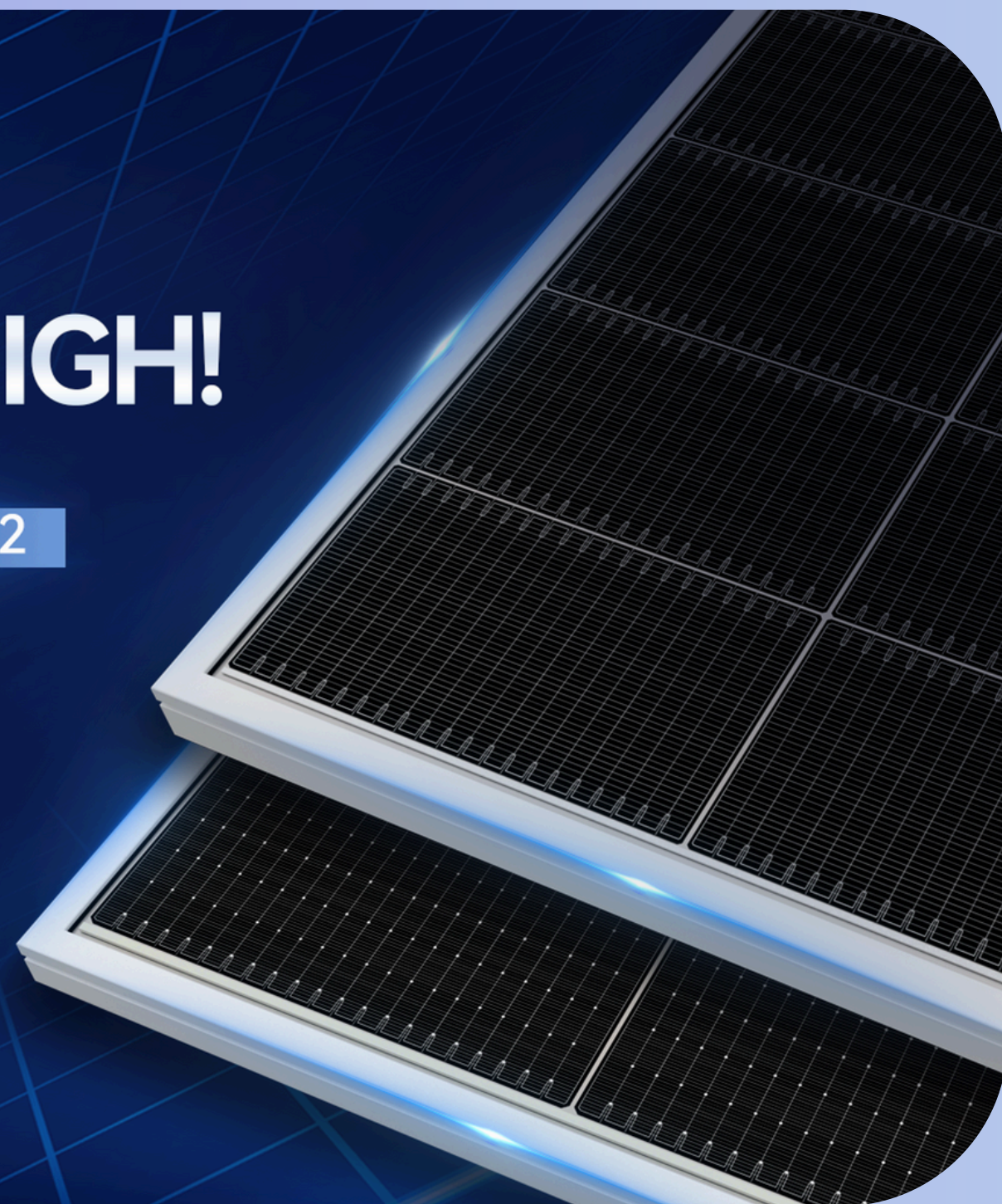
**24.75%**<sup>Efficiency</sup>

Everest G12R-132

**669.1W**<sup>Power</sup>

**24.77%**<sup>Efficiency</sup>

[www.huasunsolar.com](http://www.huasunsolar.com)



Driven by its dedication to renewable energy development, Huasun has steadily improved its **Himalaya G12-132** HJT module in 2024, increasing its champion power from 750.544 W to **768.938 W** and raising its efficiency from 24.16% to **24.75%**.

Additionally, Huasun's R&D team has raised the champion power of the **Everest G12R-132** rectangular HJT module to **669.1 W**, with a leading conversion efficiency of **24.77%**.

# INNOVATION DRIVES EXPANSION



## 02 Top Pick for Utility Projects

# 1.8 GW DELIVERED

for the China Green Development Investment Group's  
4 GW PV project in Ruoqiang, Xinjiang, China

By December 2024, the 4 GW Ruoqiang Photovoltaic (PV) Project in Xinjiang, China — **the world's largest single-site HJT solar project** — has successfully connected to the grid.

**Huasun supplied 1.8 GW of G12-132 HJT solar modules** within **only three months**, ensuring the project stays on track for completion by the end of 2024. This milestone showcases Huasun's great production capacity and delivery efficiency.

## 03 Lighting Up the Oceans



Huasun's V-Ocean modules are engineered for **optimal performance and durability in offshore environments**, featuring high-performance butyl adhesive, an IP68 junction box, integrated coating frames, and double-layer coated glass.

The modules have successfully passed TÜV SÜD's 14,400-cycle shock test, 12x dynamic mechanical load (DML) cycling, and 6000Pa/3000Pa static mechanical load (SML) tests, confirming their **high efficiency and long-term reliability**.

## 04 Premier Choice for Offshore Projects

# FIRST BATCH DELIVERED

for the 800 MW Phase 1 of Power Construction Corporation of China's offshore PV project

By December 2024, Huasun delivered **1,386 pieces of V-Ocean HJT solar modules** for Phase 1 (800 MW) of Power Construction Corporation of China's offshore PV project in Qingdao Province, China.

This delivery, made just **one month** after securing the 1 GW contract, highlights Huasun's strong production and supply chain capabilities, ensuring an accelerated timeline for the project's grid connection.

## 05 Standing Taller for Brighter Future

### ULTRA-BIFACIALITY

*Double-glass HJT Module for Vertical Installations*

*Special cell and frame design*

*Average bifaciality approaching **100%***



Huasun's **G12 ultra-high bifaciality modules with steel-framed design** are specifically developed for vertical installation.

Huasun is committed expanding boundaries of technology and applications, driving the global shift toward more efficient and cost-effective clean energy solutions, **while revitalizing traditional industries, such as agriculture and transportation.**

## 06 Prime Solution for Vertical Installation

# MULTIPLE PROJECTS OPERATED with vertical installation

Huasun's high bifaciality modules, combined with Next2Sun's innovative mounting system, generate electricity with **minimal land use, reducing impact on agriculture.**

A key example is the 5.2 MW vertical AgriPV project in Merzig-Wellingen, Germany, where vertical panels boost performance by **reducing snow and dust buildup and capturing reflected sunlight, optimizing the farm's energy system.**





In 2024, Huasun has proven its strength and potential through impressive project wins, cutting-edge product innovations, and a growing market presence.

As we step into 2025, with technology and market expansion driving us forward, Huasun is set to reach new heights.

We're not just keeping pace with the industry — we're shaping the future of global photovoltaics with bold innovation and a visionary spirit!



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