



How Bifacial Solar Panels Are Revolutionizing Renewable Energy in 2026



HOW BIFACIAL SOLAR PANELS ARE REVOLUTIONIZING RENEWABLE ENERGY IN 2026

[Learn More](#)



Contact Us:

+86 15776467829

www.sungreatenergy.com



Shenzhen Sungreat Energy Technology Co., Ltd., a global innovator and leader in solar energy solutions, is proud to announce the launch of its newest breakthrough product: next-generation **bifacial solar panels**. As the renewable energy landscape undergoes rapid transformation, Sungreat Energy is at the forefront, redefining efficiency, scalability, and real-world impact with bifacial technology. The company's latest offering is set to empower industries, communities, and governments worldwide to reach new heights in sustainability and energy independence.

"Today, we stand on the cusp of a new era in solar technology," said Adam Yu, spokesperson for **Shenzhen Sungreat Energy Technology Co., Ltd.**, at the official product launch in Shenzhen. "With our advanced bifacial solar panels, we are not only maximizing solar energy yield but also delivering cost-effective, durable and environmentally-resilient solutions to our customers. This is not just an upgrade—it is a revolution in the way we harness the power of the sun."

Solar Innovation: Why Bifacial Solar Panels Matter in 2026

The global urgency for clean and renewable energy has never been greater. Climate change, volatile fossil fuel pricing, and an increasing demand for energy-intensive industries are accelerating the transition toward sustainable solutions. Photovoltaic (PV) energy sits at the heart of this transition, having proved itself as a key pillar of the world's clean energy mix. Yet, as traditional solar panel efficiency approaches its theoretical limits, innovation is essential.

Enter [bifacial solar panels](#). Unlike conventional monofacial panels, which harvest sunlight solely from their front face, bifacial panels collect energy from both sides. This dual-action design enables them to capture reflected and diffused sunlight from rooftops, ground surfaces, or white membrane installations—leading to increases in output by 10% to 30% or even higher in optimal environments.

For Sungreat Energy, the adoption of bifacial technology was not a question of if, but when. As Adam Yu emphasized, “Energy users from utility-scale farms to enterprise clients are demanding the next leap in efficiency and ROI. Our **bifacial solar panels** are the direct answer, offering immediate performance gains and a clear path to true energy sustainability.”

The Science Behind Bifacial Solar Panels

To fully appreciate the impact of **bifacial solar panels**, it's important to understand their fundamental difference from traditional modules.

How Do Bifacial Panels Work?

Bifacial panels are constructed with transparent backsheets or dual glass panels and advanced cell technology. This unique structure allows sunlight to be absorbed on both the front (direct sunlight) and the rear (reflected light from the ground, adjacent surfaces, or ambient light). The rear side can produce up to 25% additional electricity based on installation angle, surface albedo (reflectivity), and geographic conditions.

Key Features of Sungreat Bifacial Solar Panels:

- **PERC (Passivated Emitter and Rear Cell) or N-Type Technology:** For higher efficiency and lower degradation rates.
- **Dual Glass Encapsulation:** Provides greater durability, weather resistance, and flame retardance.
- **Frameless/Framed Options:** Enabling optimized mounting for rooftop, ground, and floating systems.
- **Higher Power Output:** Wattages per panel often 380W–650W, representing a significant leap over previous generations.
- **PID Resistance:** Reduced potential-induced degradation, leading to longer lifespan and stable performance.
- **Lower Levelized Cost of Energy (LCOE):** Thanks to higher yield and lower balance of system (BOS) costs.

Advantages for Every Sector

Bifacial solar technology's benefits stretch across all major areas of solar deployment:

1. Utility-Scale Solar Farms

- **Maximized Ground Yield:** Bifacial panels increase kWh production without requiring additional land.
- **Reduced Row Spacing:** Allowing for more compact, high-output field layouts.
- **Durable in Harsh Climates:** Dual glass withstands sand, snow, and UV radiation for up to 30+ years.

2. Commercial and Industrial Clients

- **Rooftop Performance:** Light reflected from cool roofs, painted surfaces, or membranes is efficiently harvested.
- **Economical Payback:** Lower installation costs per output watt and better ROI.

3. Residential Customers

- **Space-Constrained Gains:** Higher yield per square meter maximizes solar self-consumption for homes, apartments, and building-integrated photovoltaics (BIPV).
- **Aesthetics:** Dual-glass options can be visually striking and blend with modern designs.

4. Floating Solar & Specialty Sites

- **Reflectivity Bonus:** Water and ice provide superior albedo, increasing the rear-side power gain.
- **Environmental Resilience:** Resistant to moisture, mildew, salinity, and UV exposure.

Product Spotlight: Sungreat's New Bifacial Solar Panels

The launch of [bifacial solar panels](#) by Shenzhen Sungreat Energy Technology Co., Ltd. marks a technological milestone for the global PV industry.

Product Highlights:

- **Power Classes:** from 410Wp to 700Wp
- **Cell Technology:** N-type TOPCon and PERC for maximum bifacial gain
- **Efficiency:** Up to 23.2% front-side; up to 30% rear-side gain
- **Build:** 2.0mm dual glass, frameless or robust aluminum frame
- **Warranty:** 30 years linear power warranty, 12 years product warranty
- **Certifications:** IEC, TUV, UL, CE, RoHS
- **Applications:** Ground mounts, rooftops, carports, floating solar, agrovoltatics

“Our advanced bifacial module is the result of years of R&D and field testing,” Adam Yu notes. “We combine cutting-edge cell technology, strict quality control, and customer-focused design to offer a product that is versatile, reliable, and truly future-ready.”

Transforming the Future: Real-World Results & Sustainable Impact

The adoption of **bifacial solar panels** is already yielding tangible outcomes worldwide:

- A 100MW solar power plant in Western China reported a 14% increase in annual energy yield after upgrading to bifacial technology provided by Sungreat Energy.
- Industrial parks in Southeast Asia saw payback periods drop below 4 years when using Sungreat's bifacial modules with cool roof installations.
- Floating solar farms in Brazil, equipped with bifacial panels, not only increased energy output by more than 28% but also reduced local water evaporation, doubling environmental benefits.

Beyond just technical performance, these projects have spurred local employment, reduced operational carbon footprints, and inspired rapid expansion of clean power solutions for communities and industries alike.

Technology, Quality, and Service: The Sungreat Difference

Sungreat Energy's commitment to reliability and innovation is visible in every aspect of our bifacial solar panel development:

- **Rigorous Testing:** Each panel is subjected to accelerated aging, storm simulation, thermal cycling, PID, and microcrack testing.
- **Smart Manufacturing:** Fully automated lines ensure consistency and defect-free deliveries.
- **Global Logistics:** Panels are delivered to over 80 countries, backed by regional support teams.
- **Comprehensive After-Sales Care:** Real-time remote monitoring, performance analytics, and warranty support.

"We view every installation not as an end, but the beginning of a decades-long journey with our partners. At every step, we deliver support, insight, and continuous improvement," says Adam Yu.

Sustainability at Every Level

Bifacial solar panels align seamlessly with larger societal and corporate goals:

- **Decarbonization:** By producing more clean energy per square meter, bifacial panels accelerate the displacement of fossil fuels.
- **Circular Economy:** Durable, easily recyclable dual-glass design reduces waste and environmental impact.
- **Social Value:** Sungreat collaborates with NGOs, governments, and community groups to deploy bifacial solar solutions in off-grid and developing regions.

About Shenzhen Sungreat Energy Technology Co., Ltd.

Founded in 2011, [Shenzhen Sungreat Energy Technology Co., Ltd.](https://www.sungreatenergy.com/) is a recognized global leader in solar energy innovation. We provide advanced solar PV modules, turnkey solar solutions, and after-sales support to partners in over 80 countries—enabling cleaner, smarter energy for a sustainable future.

Looking Ahead: The Bifacial Revolution Is Now

“2026 is a turning point for renewable energy worldwide,” concludes Adam Yu. “As governments, businesses, and consumers demand more from their energy solutions, our bifacial solar panels answer that call—delivering performance, value, and sustainability. At Shenzhen Sungreat Energy Technology Co., Ltd., we are honored to light the way into this brighter, cleaner future for all.

Media Contact:

Company Name: Shenzhen Sungreat Energy Technology Co., Ltd.

Contact Name: Adam Yu

Contact Phone: +86 15776467829

Address: B21, Dongfang Yayuan, Baomin 2nd Road, Chentian Community, Xixiang Street, Baoan District, Shenzhen, Guangdong, China

Email: adam@sungreatenergy.com

Website: <https://www.sungreatenergy.com/>