FIRST POWER SOLAR INC.

The Future Of

Solar Energy

Transforming Tomorrow with Solar Solutions.

Budget-Friendly

Environmentally Friendly

CONTACT US

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https://first-powersolar.com/

FIRST POWER SOLAR INC.

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OUR MISSION

Transform Sunlight into Competitive Advantage

At First Power Solar Incorporated, we empower businesses to slash energy costs and enhance profitability. We provide EPC general contracting mode and one-stop completion of project design, procurement, and construction to ensure efficient delivery of the project. The Energy Management Agreement or Power Purchase Agreement (PPA) model allows customers to pay according to electricity consumption without upfront investment, thus reducing energy costs, and achieving sustainability. We help industries reduce electricity expenses by 30%+ and unlock new growth opportunities.

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COMPANY ADVANTAGES

Strong Technology R&D Team Our company continuously invests in the renewable energy sector and has built a team of 200+ technical experts in mainland China. We actively cooperate with leading universities and provide high-quality research and development support. Additionally, in the Philippines, we have a team of 100+ professionals responsible for procurement, R&D, design, commissioning, and maintenance.

With cutting-edge technology and equipment and mature engineering experience, we can achieve efficient project implementation and intelligent operation and maintenance, and provide full life cycle value empowerment for large-scale energy infrastructure.

1

REAL-TIME MONITORING OF POWER GENERATION SYSTEMS

- Deploy an advanced monitoring platform to provide real-time monitoring of the power generation system and display the background monitoring interface so that the system operation status can be mastered at any time. Through big data analysis, the equipment operation status and abnormal warning can be accurately identified to ensure efficient and stable operation of the system and minimize the risk of downtime.

2

PHOTOVOLTAIC UAV INTELLIGENT INSPECTION

- We have photovoltaic-specific drones equipped with infrared thermal imaging and AI recognition systems, which can automatically locate component defects, detect hot spots, and provide fault warnings. Compared with traditional manual inspections, the efficiency is increased by 80%, significantly reducing operation and maintenance costs and power generation losses.

3

FULL-CYCLE DIGITAL OPERATION AND MAINTENANCE MANAGEMENT

- Combining drone inspection data with the intelligent analysis platform, a power plant health assessment report is generated in real time to accurately guide maintenance decisions and maximize the stability of system operation and the sustainability of power generation revenue.

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PROFESSIONAL ABILITY

Professional technical support and full life cycle management

Equipped with a team of senior operation and maintenance engineers, we provide regular inspections, preventive maintenance, and emergency response services, covering the entire process management from equipment commissioning and performance optimization to fault repair, to ensure the long-term and reliable operation of the system.

Heavy mechanized construction equipment ensures efficiency

Equipped with specialized construction equipment such as gantry cranes, crawler cranes, heavy forklifts, etc., it covers the entire process of component installation, pile foundation engineering, and equipment lifting, ensuring high precision and high-efficiency project implementation and shortening the project cycle.

Large-scale infrastructure project experience and UHV technology advantages

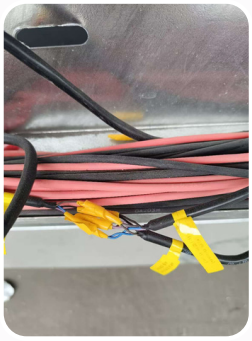
The team is deeply engaged in the field of UHV and large-scale ground power station construction, and has the ability to design high-voltage access systems, construct in complex terrains and deliver large-scale projects. We are more focused on connecting to large electricity users such as ground power stations/steel mills and other large electricity users, solving the problem that small photovoltaic companies have no access to the high-voltage grid market.

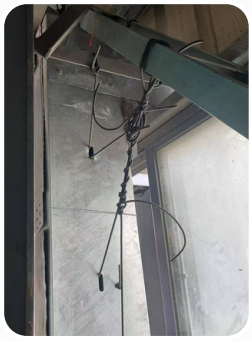
PROFESSIONAL CONSTRUCTION TEAM

STRICT CONSTRUCTION STANDARDS

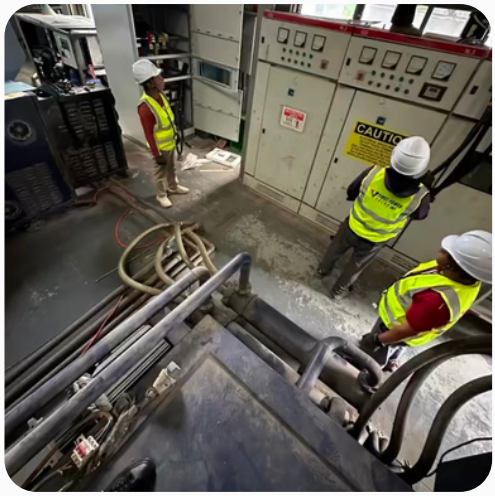
OUR PROPRIETARY INSTALLATION METHODOLOGY

OTHER APPROACH





POSSESS HIGH- AND LOW VOLTAGE GRID CONNECTION TECHNOLOGY



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WHY CHOOSE US?

Zero Upfront Costs We fund, install, and maintain the solar system

Boost Competitiveness Cut operational costs and reinvest savings into growth

Ownership Transfer Receive the system FREE after 15-20 years

Local Expertise 100+ completed projects across industries

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CORE BUSINESS MODEL: PPA EXPLAINED

PPA (Power Purchase Agreement)

We invest in full design, installation, and maintenance.

You pay only for solar-generated electricity at discounted rates.

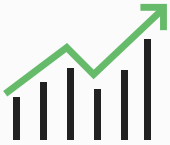
Zero Risk We guarantee system performance.

Scalable Expand capacity as your business grows.

PPA BENEFITS

CASH FLOW FRIENDLY

Redirect capital to core operations.



INFLATION-PROOF

Fixed rates for 20 years, immune to grid price hikes.

Sustainability Credentials

Attract eco-conscious clients and investors.

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CORE BUSINESS MODEL: EPC EXPLAINED

EPC (Engineering, Procurement, and Construction)

We design and build
We handle complete engineering, procurement, and construction of your solar system.

You own the system
Full ownership and control from day one.

Performance Guarantee
System quality and performance are guaranteed through proper installation and top-tier components.

Scalable
Easily expand the system as your energy needs grow.

EPC BENEFITS

CAPEX CONTROL
Invest once and reap long-term energy savings.

COST TRANSPARENCY
Clear, upfront pricing with no hidden charges.

Sustainability Credentials
Own a renewable energy asset that attracts eco-conscious clients and stakeholders.

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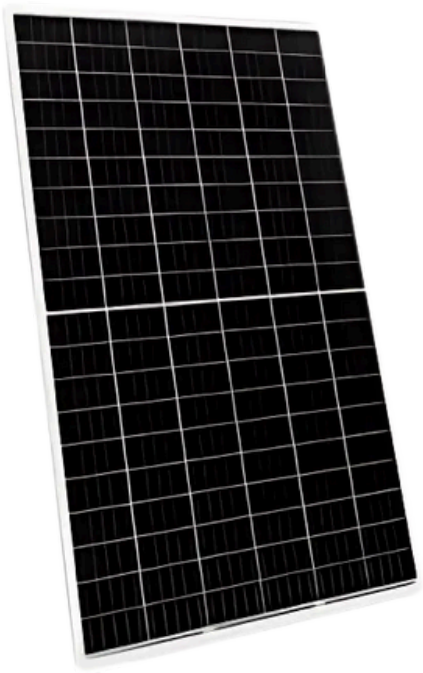
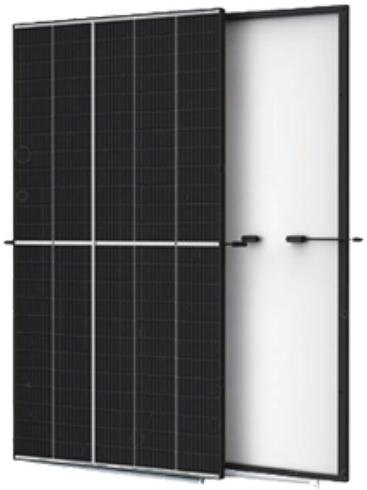
OUR STRATEGIC COOPERATION BRAND

JinkoSolar, JA Solar, LONGi Solar, and Trina Solar are leading solar panel manufacturers, known for their high-efficiency flagship products—Tiger Neo, DeepBlue 4.0 Pro, Hi-MO Series, and Vertex Series—designed for residential, commercial, and utility-scale solar projects.



- **Core Technology:** N-type TOPCon (Tunnel Oxide Passivated Contact)
- **Efficiency**: Up to 23.5% (lab), 22–23% (mass production)
- Power Output: Up to 635W (monofacial), 30% bifacial gain
- Temperature Coefficient: -0.29%/°C (better than PERC's -0.35%/°C)
- **Bifaciality**: Up to 85%, optimized for high-reflectivity environments (e.g., snow, sand)
- **Warranty:** 30-year linear power warranty, ≤1% first-year degradation, ≤0.4% annual degradation
- **Key Features**: High energy density, low degradation, superior low-light performance; ideal for utility-scale and distributed projects.

- **Core Technology:** 210mm Large Silicon Wafer + Multi-Busbar (MBB)
- **Flagship Product:** Vertex Series (Vertex S+/N)
- Efficiency: Up to 24.24% (lab), 21.8–23.2% (mass production)
- Power Output: Up to **720W** (Vertex N, N-type i-TOPCon)
- Temperature Coefficient: -0.29%/°C (N-type)
- **Bifaciality**: Up to 80%, 25% rear-side gain
- **Warranty**: **30-year** warranty, ≤1% first-year degradation, ≤0.45% annual degradation
- **Key Feature**s: Ultra-large wafer size reduces system costs, excellent compatibility with smart trackers, and focus on ultra-high power and LCOE (Levelized Cost of Energy) optimization.



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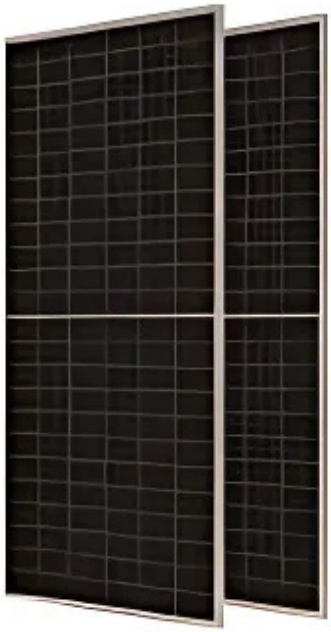
Module

JA SOLAR

- **Core Technology**: PERC (Passivated Emitter Rear Contact) & N-type Bycium+
- Efficiency: Up to 23.3% (lab), 21.3–22.4% (mass production)
- **Power Output:** Up to 625W (72-cell), **10–30% bifacial gain
- **Temperature Coefficient**: -0.35%/°C (PERC) to 0.30%/°C (N-type)
- **Warranty:** 25-year linear warranty, ≤2% first-year degradation, ≤0.55% annual degradation
- **Key Features**: High reliability, strong resistance to PID (Potential Induced Degradation), cost-effectiveness, and versatility for residential, commercial, and utility applications.



LONGi Solar

- **Core Technology**: HPBC (Hybrid Passivated Back Contact) & HBC (Heterojunction Back Contact)
- **Efficiency:** Up to 26.81% (lab, HBC), 24–25% (mass production)
- **Power Output:** 660W (Hi-MO 7), 740W (Hi-MO 9, 210mm silicon wafer)
- **Temperature Coefficient:** -0.29%/°C (Hi-MO 7)
- **Bifaciality:** Up to 85% (Hi-MO 6)
- Warranty: 25-year warranty, ≤1.5% first-year degradation, ≤0.55% annual degradation
- **Key Features:** Leader in monocrystalline silicon technology, industry-leading power and efficiency; optimized for high-irradiation regions and BIPV (Building-Integrated Photovoltaics).

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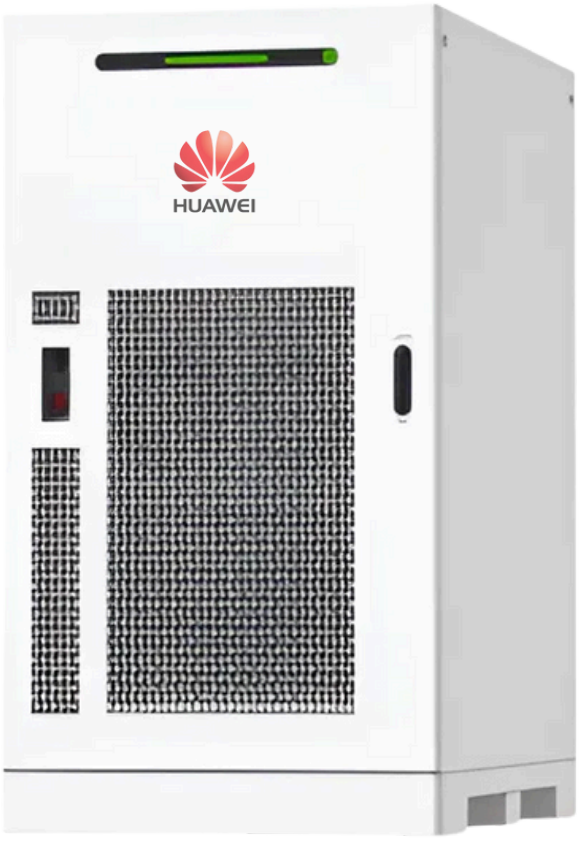
HUAWEI LONGi Solar TBEA JinKO Solar TW SOLAR

SUN2000-150K-MG0
Smart PV Controller

Max. efficiency : 98.6% @400V, 98.8% @480V
European efficiency : 98.4%
Max. Input Voltage 1 : 1,100 V
Max. Current per MPPT : 48A
Max. Current per Input : 23A
Start Voltage : 200 V
MPPT Operating Voltage Range 2 : 200 V ~ 1,000 V
Number of MPP trackers : 7
Max. input number per MPP tracker : 3
Nominal AC Active Power : 150,000 W
Max. AC Apparent Power : 165,000 VA
Max. AC Active Power (cos φ = 1): 165,000 W
Rated AC Grid Frequency : 50 Hz / 60 Hz

LUNA2000-215-2S10
Smart String ESS

Model type : LUNA2000-215-2S10
Rated capacity : **215.0kWh**
Maximum cycle rate : 0.5 CP
Maximum cycle efficiency : 91.3%
Depth of charge and discharge : 0~100%
Dimensions (W x D x H): 1150 mm × 1800 mm × 2100 mm
Weight : ≤ 2.8 T
Operating temperature range : -30 °C ~ 55 °C
(>50°C Derating)
Storage temperature range -35 °C ~ 60 °C



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DIVERSE SOLAR SOLUTIONS FOR VARIOUS INDUSTRIES

Manufacturing

Retail Chains

Logistics & Warehousing

SMEs

Commercial Real Estate

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INDUSTRY PAIN POINTS & SOLUTIONS

Sector	Pain Points	Our Solutions
Manufacturing	Energy costs erode profit margins.	Slash electricity bills by 20%+
Real Estate	Vacant spaces due to high utility costs.	Offer tenants discounted **green electricity**
Retail	Limited funds for customer engagement.	Redirect energy savings to marketing

CLIENT BENEFITS BY INDUSTRY

Client Benefits by Industry

Manufacturing

Pain Points

- High energy costs (30% of production expenses).
- Limited capital for green investments.
- Maintenance complexities.

Solutions

- Slash electricity costs by 30%+, freeing funds for R&D or enterprise expansion.
- Zero operational disruptions with 24/7 monitoring.
- Client Quote: "PPA reduced our product costs by 5— now we dominate price-sensitive markets!"

Logistics & Warehousing

Pain Points

- High vacancy rates due to uncompetitive pricing.
- Tenant complaints about rising electricity bills.

Solutions

- Market "Green Warehouse" spaces with 30% lower tenant electricity rates.
- Boost occupancy rates by 20%+ and charge premium rents.
- Case Study: SMART Warehousing achieved 95% occupancy after installing solar.

Commercial Real Estate

Pain Points

- Difficulty differentiating properties.
- High common area electricity costs.

Solutions

- Promote "Discounted Green Electricity" for buyers/tenants.
- Increase property value by 8-12% with solar-powered amenities.
- Cut building management costs with solar-powered lighting, elevators, etc.

Retail Chains

Pain Points

- Energy bills are eating into marketing budgets.
- Lack of visible sustainability efforts.

Solutions

- Save ₱30,000/month per store—fund 4 extra promotional campaigns.
- Display "Powered by Solar" on receipts to boost brand loyalty.

SMEs

Pain Points

- Inability to compete with larger players' resources.
- No ESG strategy implementation.

Solutions

- Access enterprise-level solar rates with no upfront costs.
- Automate sustainability reporting for tenders and certifications.

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PARTNERSHIP PROCESS

Energy Audit

Analyze your consumption and roof potential.

Custom Proposal

Tailored PPA terms and savings forecast.

Installation

Minimal disruption, completed in the most efficient manner possible

Optimize & Save

Continuous monitoring for peak performance.

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SUCCESS STORIES

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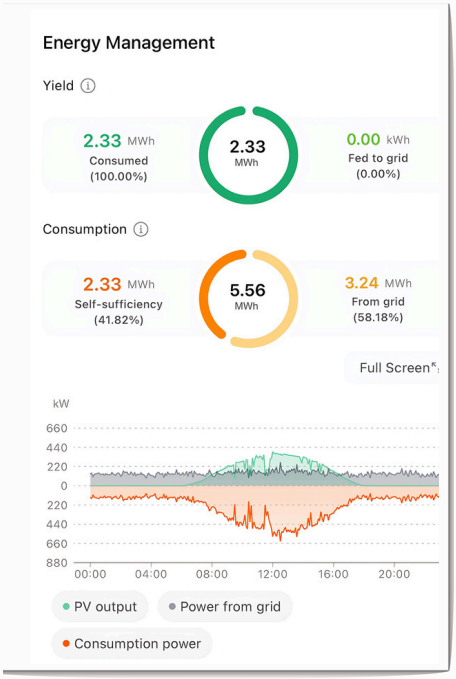
578.2kW Project

Project metrics	Inverter configuration	Theoretical daily power generation	Actual daily electricity generation	Actual Effective insolation Hours	Component capacity Power generation efficiency
578.2kW	480kW	1734.6 degrees	day 1: 2435.12 (Supratheoretical 40%) day2: 2326.43 (Supratheoretical 34.1%)	day 1: 6.34 hours day 2: 6.06 hours	day 1: 4.2 degrees/kw-day day2: 4.02 degrees/kw-day
		conservative assumption of 80% system efficiency	Actual performance was better than expectations	The theoretical value usually defaults to 4-5 hours	Actual performance verifies the reliability of the technology



The first phase of the project has achieved a 44% reduction in the customer's electricity cost per unit of product through customized photovoltaic solutions, directly reducing the marginal cost of production and helping enterprises optimize the cost structure of the supply chain.

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1.42MW Project

1.42 MW project saves ₱15.549 million in annual electricity costs. The savings of ₱15.549 million can fund:

- Adding 1 new production line
- OR **reducing product prices by 5%-8%** to aggressively capture market share

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FAQ'S

Who is First Power Solar Inc.?

First Power Solar Inc. is a leading provider of solar energy solutions, offering sustainable and cost-effective systems for commercial, and industrial clients. We specialize in designing, installing, and maintaining solar power systems to reduce energy costs and environmental impact, empowering communities and businesses to transition to clean energy for a greener future.

Where is First Power Solar Inc. located?

First Power Solar Inc. is located at: 16flr The World Centre Building, Sen. Gil J. Puyat Ave, Makati, Metro Manila, Philippines.

How can I contact First Power Solar Inc.?

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Schedule Your Free Energy Audit Today!

Your competitors are cutting costs with solar—don't get left behind!

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