



Solargiga Global Benchmark Portfolio



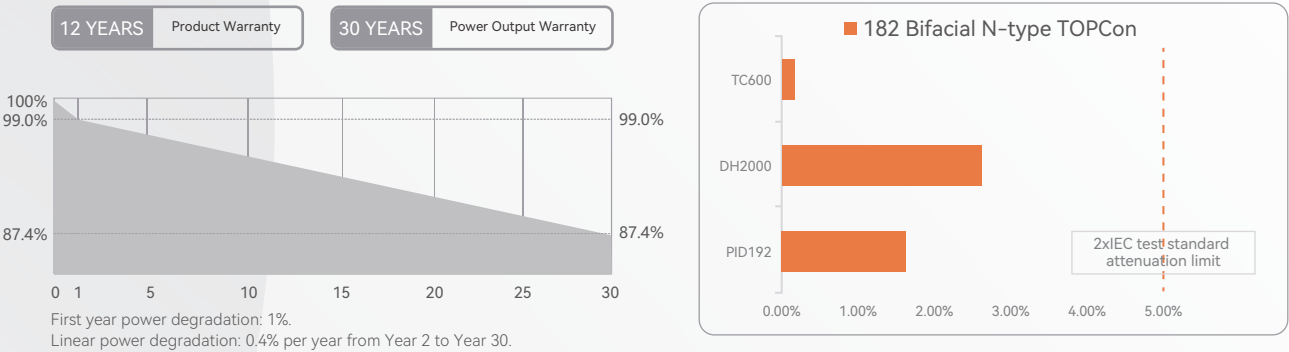
In Time, We Trust.

ABOUT US

Founded in 2000, Solargiga Energy is a well-known photovoltaic company. Listed in HKEX in 2008 (00757.HK), Solargiga Energy integrates R&D, production, sales&marketing and system application of PV modules. We employ more than 2,000 staff worldwide and have production bases in Jinzhou (Liaoning) and Yancheng (Jiangsu). Our Marketing&Operation Center located in Suzhou (Jiangsu), and set up Beijing Office. Our business footprint covers major PV markets around the globe. We are committed to providing global customers with high-quality PV products, technical support, after-sales services&solutions, and promoting the development of the clean energy industry.

Customer Value

The true value of a module is measured by its stable performance over its 30-year lifecycle. Solargiga offers a high-level commitment in the industry: a unique 30-year linear power warranty is our ultimate endorsement of long-term product reliability. Particularly for our N-type modules, we have set an ultra-low power degradation standard: first-year degradation not exceeding 1%, and only 0.4% linear degradation annually from year 2 to year 30. This leading commitment ensures your power plant can still maintain over 87.4% of its initial power output after 30 years. Choosing Solargiga means you get far more than just a PV module; you gain efficient, reliable, long-term asset appreciation and the strongest guarantee for power generation revenue.



To validate the product's adaptability and reliability under diverse global environmental conditions, we have established long-term outdoor demonstration bases in four of China's most representative extreme climate zones. These sites simulate real-world application scenarios found in similar climatic regions worldwide:

- Hot-Humid Environment:** The Hainan demonstration site simulates tropical island conditions, such as those in Southeast Asia and Central-South America, validating the components' exceptional durability under high temperature, high humidity, and high salt mist exposure.
- Hot-Dry Environment:** The Turpan demonstration site in Xinjiang replicates conditions typical of Central Asia and the Middle East, testing the components' stable performance under intense ultraviolet radiation, significant temperature variations, and wind-blown sand.
- High-Altitude Environment:** The Lhasa demonstration site in Tibet simulates regions like the Andes Mountains in South America, verifying the components' outstanding performance under strong ultraviolet radiation and low-temperature conditions.
- Extreme Cold Environment:** The Mohe demonstration site in Heilongjiang mimics severe cold climates, such as those in North America and Northern Europe, ensuring reliable operation and power generation efficiency of the components in extremely low temperatures.

Through this comprehensive demonstration system, we ensure that every product is fully capable of meeting the unique environmental challenges of its target market. This provides a solid foundation for the successful global deployment and long-term stable returns of your projects.

Delivery Capability

Base Layout

Relying on two major intelligent manufacturing bases in Jinzhou, Liaoning, and Jianhu, Jiangsu, Solargiga has formed a dual-core layout ranging from "small but beautiful" customized production lines to ultra-large-scale N-type capacity, with a total capacity exceeding 20.2GW. The company focuses on fully automated production, real-time information management systems, and a full-process quality control system to ensure the precision and reliability of every module. With international authoritative certifications and global delivery experience, Solargiga has achieved a leap from manufacturing to "intelligent manufacturing," providing global customers with continuous, stable, and high-quality photovoltaic solutions through high-efficiency, high-stability products and excellent delivery capabilities.

Global Business

The company's marketing network is distributed globally, with products sold to more than 30 countries and regions. Offices are established in many countries including China, Japan, Germany, and Australia. Aiming to become a globally leading manufacturer of monocrystalline silicon solar products, Solargiga continues to deepen its presence in the Asian market based in China, while vigorously expanding into European, North American, Australian, and South American markets, strengthening its global layout to provide the most competitive products and services for global customers.

Certification & Market Access

Solargiga products possess extensive and deep market access certifications globally. Based on the international IEC standard, we have also obtained highly recognized local certifications for key markets, ensuring product quality and compliance. For example, we hold UL certification and PQP testing for entering the North American market; obtained CE-LVD/EMC and UKCA certification in the EU; possess CQC and PCCC certifications in China; passed certifications such as Brazil's Inmetro and Chile's SEC in Latin America; additionally, we have obtained a series of certifications in Asia including Japan's JPEA and Korea's KS. This comprehensively demonstrates the company's market access strength in major global economies and specific regulatory markets, providing reliable product assurance for global customers.



Liaoning Jinzhou Production Base

Address: No. 1-5, Block 3, Chifeng Street, Economic & Technological Development Zone, Jinzhou City, Liaoning Province, China
Tel: (86) 0416 508 1136
Capacity: 1.9GW

Jiangsu Yueyang Production Base

Address: No. 777 Tangqiao Road, Jianhu County High-tech Economic Zone, Yancheng City, Jiangsu Province, China
Tel: (86) 0515 8656 5777
Capacity: 18.3GW (including 10GW planned)

European Bonded Warehouse



Headquarters Marketing Teams Offices/Production Bases

CASE INDEX

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Part-1

Megawatt-Scale Power:

Global Utility-Scale Ground-Mounted Power Stations

Dazhuang, Yunnan | 250 MW PV Project

Shawan, Xinjiang | 700 MW Integrated Solar-Storage Project

Nileke, Xinjiang | 1.1 GW Ground-Mounted Power Station

Florina, Greece | 4.5 MW Ground-Mounted Power Station

Shouguang, Shandong | 250 MW Solar-Salt Integration Project

Kaiping, Guangdong | 150 MW PV Project

Mypolonga, Australia | 4.95 MW Kerta Solar Power Station

Dalad Banner, Inner Mongolia | 2 GW Ground-Mounted Power Station

Zimbabwe | 2 MW Ground-Mounted Power Station

Xinzhou, Shanxi | 50 MW Ground-Mounted Power Station

Dazhuang, Yunnan | 250 MW PV Project



Location:
Dazhuang, Yunnan



Type:
Ground Power Station



Capacity:
250MW



Product: TOPCon Bifacial Module 580W



Climate: Subtropical Plateau Monsoon Climate



Time: June 2025



Go with the flow, Plate shape ideas on the mountain

Recently, the SPIC 250MW PV Project in Dazhuang Town, Yunnan Province has been substantially completed. The project is constructed in two phases. Phase 1, with a capacity of 150MW and exclusively using Giga-N series 580Wp monocrystalline silicon solar cell modules of Solargiga Energy, is expected to be connected to the grid in the first half of the next year.

The project, located in Dazhuang Town, Yunnan Province, China with Giga-N series PV modules in well-proportioned arrangement along the trend of the mountain, stands brilliantly on the mountain at an altitude of about 1450-1813 meters. The project not only boosts the green economy but also protects the original landform and ecology with its innovative design.

Green industry, Add momentum to rural revitalization

During the project construction, we prioritized hiring the surplus labor from the local community, so that the residents could be employed at their doorsteps. The local government implemented a mechanism of connecting farmers with farmers for one penny per hour of electricity, this means that after the project reaches full capacity in June next year, the project will give Baiyu Village in Dazhuang town a penny for each kilowatt hour of electricity generated.

After the grid connection and operation of the project, the average annual power generation will be about 413 million kWh, saving 126,000 tons of standard coal. At the same time, the emission of various air pollutants will be reduced accordingly, including about 340,000 tons of carbon dioxide, 949 liters of sulfur dioxide, and 165 liters of smoke dust, contributing greatly to local environmental protection, air pollution reduction, and economic development.

“Products + Services”, Create new advantages in market competition

However, the supply for and delivery of this 5876-mu PV power station is not as simple as it may seem. At the beginning of the project cooperation, the customer expressed concerns about the tight schedule. To meet the urgent installation needs of the customer, Solargiga Energy, despite high transportation costs, chose road transportation instead of railway transportation to ensure the installation progress fully. “We prioritize our customers' needs above high transportation costs,” said the sales team of Solargiga Energy to the customer.

In addition, after the arrival of modules, we dispatched our technical department to provide on-site installation guidance to ensure that the customer has no concerns during subsequent use. Currently, the GIGA-N series TOPCon modules from Solargiga Energy, recognized for their superior quality and service, are increasingly becoming one of the most competitive product lines in the market.

Shawan, Xinjiang | 700 MW Integrated Solar-Storage Project



Location:
Shawan, Xinjiang

Type:
Ground Power Station

Capacity:
700MW

Product: TOPCon Bifacial Module 655W / 660W / 665W

Climate: Temperate continental arid climate

Time: April 2025



The “Flower of Green Energy” Blooms in Northern Xinjiang

Recently, Xinhua Hydropower Co., Ltd. (hereinafter referred to as “Xinhua Hydropower”)’s 700MW “Photovoltaic + Energy Storage” project in Shawan, Tacheng Prefecture, Xinjiang, achieved full-capacity grid connection. Supported by Solargiga Energy’s Giga series high-efficiency modules and customized services, this low-carbon benchmark generates ~1.2 billion kWh of on-grid electricity annually, powering 600,000 households and boosting border green development with “solar momentum”.

Shawan, Xinjiang, a fertile land at the northern foot of the Tianshan Mountains, preserves thousands of years of nomadic vitality with its vast pastures and grazing cattle and sheep. Today, it blazes a new green livelihood path through the integration of animal husbandry and photovoltaic power. Scientifically elevated and neatly arranged photovoltaic arrays allow sunlight to penetrate, nourishing lush forage grass below for herdsmen’s sheep. The “power generation above, forage cultivation below” model delivers dual ecological and economic benefits, setting a sustainable development paradigm for border regions.

“Conquering Climate Tests with Strength” in the Polar Region

Xinjiang Shawan’s harsh climate — with an annual temperature difference of up to 60°C and over 40 sand-dust days yearly — posed severe challenges. Solargiga’s Giga series 655W/660W/665W bifacial module rose to the test with exceptional environmental adaptability. Built with advanced technology and high-quality materials, the modules boast strong wind-sand and high-temperature resistance, having passed enhanced sand-dust and high-temperature long-term weathering tests. Proven reliable in extreme conditions (hot-humid Hainan, hot-dry Turpan, high-altitude Lhasa, frigid Mohe), they lead the industry in quality, providing robust hardware support for the project’s stable operation and expected power output.

“The Battle of Component Migration” Over Thousands of Miles

Transporting tens of thousands of modules safely to Shawan over thousands of miles was a critical project challenge. Solargiga innovatively adopted a “Highway + Railway” coordinated transport mode: railway trunk lines handled the main load (leveraging large capacity, cost-effectiveness, stable timeliness and low carbon emissions), with flexible highway transport connecting both ends. This long-distance, large-volume delivery verified the full feasibility of Solargiga’s component transport solution. Meticulous scheduling ensured smooth transfer, while customized reinforced packaging withstood long-distance jolts, achieving “zero-damage” unboxing and laying the foundation for the project’s on-schedule grid connection.

“Weaving an Efficient Delivery Network” through Collaborative Efforts

The success of the 700MW-level project relied not only on cutting-edge products and precise logistics but also tested the internal organizational coordination skills throughout the project cycle. Facing complex supply chain management, tight schedule milestones, and cross-regional multi-party collaboration, Solargiga quickly formed a specialized support team covering R&D, production, quality control, logistics, and project management. Relying on a mature large-scale project management system, the team developed detailed response plans, established efficient information flow through suppliers, carriers, and constructors, achieving seamless connection from order confirmation, production scheduling, quality monitoring to transport tracking, and on-site delivery.

Nileke, Xinjiang | 1.1 GW Ground-Mounted Power Station




 Location:
Nileke, Xinjiang

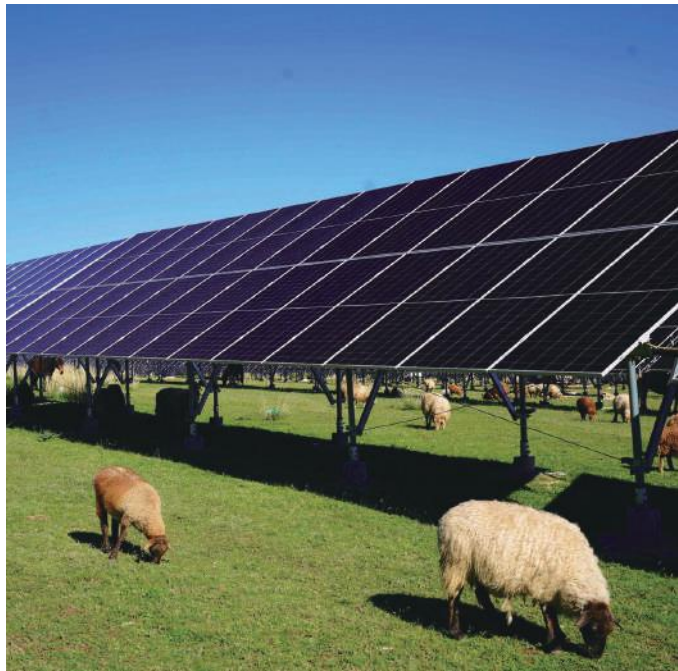
 Type:
Ground Power Station

 Capacity:
1.1GW

 Product: Perc Bifacial Module 660W / 665W

 Climate: Temperate Continental Climate

 Time: November 2024



The Shining “Blue” Upon the White Snow

In the vast lands of Xinjiang, Nileke is like a pearl favored by nature, surrounded by mountains and crisscrossed by canyons like veins. For the endless deserts of Xinjiang, Nileke is undoubtedly a precious oasis, radiating unique vitality and charm. Nileke, just as its meaning in Mongolian – “infant” – implies, carries the endless tenderness and care of this land.

The pristine snow covers the mountains of Nileke, and upon this silver-white canvas, a striking blue is quietly emerging. Since the commencement of its second phase in May 2024, the project has faced complex challenges involving simultaneous land acquisition, design, procurement, and construction, making overall management extremely difficult. Fully aware of the tight schedule and heavy tasks, Solargiga went all-out in the supply process. Leveraging its mature supply chain system, the company meticulously organized production and managed to deliver all PV modules to the project site in full and on time within just five months, seamlessly aligning with the overall project timeline.

The “Green” Pulse Beating Between the Deserts

Solargiga provided a total of 480MW of Giga-P series bifacial 660W and 665W modules for this project. In terms of power generation efficiency, compared to traditional modules, the high-power 660W/665W design can capture more solar energy per unit area, significantly enhancing power generation efficiency and bringing more considerable power output for the project. In terms of stability, the modules adopt advanced bifacial module encapsulation technology, possessing excellent anti-PID performance. Whether in extreme heat, freezing cold, or sandstorm-ridden harsh weather, Solargiga’s PV modules can maintain stable operation on this desert, ensuring the continuity and reliability of power supply, reducing O&M costs and risks.

Solargiga’s precision-crafted PV modules — the project’s “green heart” — empower it with high efficiency and stability. Transforming barren land into a green, energy-rich hub, the fully completed project will deliver 5.8 billion kWh of clean electricity yearly, save ~1.73 million tons of standard coal, and cut 4.72 million tons of carbon emissions, fueling national “Dual Carbon” goals, Xinjiang’s energy transition, and power market development.

The “Light” Emanating in Extreme Cold


Xinjiang Zhonglvlian Technology Co., Ltd. — a secondary subsidiary of China Green Development Investment Group — has rooted in Xinjiang for 20 years. It has invested 29.7 billion RMB in coal-power projects across Hami, Fukang, Zhundong and Hefeng, with an operational installed capacity exceeding 497.5 MW and reserved resources over 10 GW. Leveraging the parent group’s strategic synergy, it vigorously advances the coordinated development of new energy and cultural tourism in Xinjiang, securing remarkable phased achievements.

To support the project and client, Solargiga stationed on-site sales and technical teams. On standby at all critical construction nodes with prompt responses, the teams provided comprehensive technical consultation and guidance to the constructor via solid expertise and rich experience, ensuring optimal operation of every module.

Florina, Greece | 4.5 MW Ground-Mounted Power Station



 Location:
Florina, Greece

 Type:
Ground Power Station

 Capacity:
4.5MW

 Product: Perc Bifacial Module 545W

 Climate: Mediterranean Climate

 Time: October 2023



Nothing to be afraid

The project is located in Florina, Greece, one of the coldest human settlements in the country. In Florina, the temperature usually drops below -10°C and snow is more common than in other countries and regions. If it does not snow, the city of Florina is also usually covered in a thick fog trapped by the surrounding mountains. This mountainous and island country is full of diverse microclimates.

Different climatic conditions pose a higher challenge to the performance of PV modules. The Giga series 545W bifacial module provided by Solargiga for Smile Energy are tested according to 5-10 times IEC standards and have passed the IEC61701 (salt spray corrosion test). They have excellent bearing capacity, and can withstand 5,400 Pa snow pressure on the front side and 2,400 Pa wind pressure on the back side, so they can meet the local climate requirements.

Nothing is impossible

The team of Smile Energy has been active in the field of renewable energy sources since 2005. While developing the spirit of innovation Smile Energy has achieved many milestones in the field of energy. It is a distribution partner recognized and authorized by Solargiga Energy. Up to now, Smile Energy has developed more than 700 MW of projects (including projects under development) and has mature project development experience.

This time is Solargiga's Giga series modules made their debut in Greece. To ensure that the customer can start installation on schedule, Solargiga coordinated the inventory and logistics response with the full cooperation of all departments, and finally adopted the direct ship mode to deliver the goods to the port as scheduled, which finally lived up to the customer's choice of crossing 15,000 km.

In addition, to ensure the smooth installation of the power station project, Solargiga has assigned special personnel to provide the most thoughtful service for Smile Energy, including answering questions throughout the process and providing professional installation guidance and suggestions, which has been highly recognized by the customer.

Nothing can stop

In recent years, Greece has actively promoted solar power generation. As one of the most promising solar power markets in Southern Europe, Greece joined the GW clubs in Spain, Germany, Poland, the Netherlands and France last year, adding 1.34 GW of solar capacity in 2022 alone to now total 5.5 GW. Stelios Psomas, the policy advisor of HELAPCO, said that all indicators, including installed capacity, capacity to be applied for, investment or jobs, pointed to a peak. At present, Solargiga has established a stable marketing customer base in Greece and can handle customer needs quickly.

As we navigate the dynamic road ahead for a global energy transformation, our pragmatic approach is infused with hope. By using the power of solar energy, we can address the urgent challenges posed by climate change and create a sustainable world.

Shouguang, Shandong | 250 MW Solar-Salt Integration Project




 Location: **Shouguang, Shandong**

 Type: **Ground Power Station**

 Capacity: **250MW**

 Product: Perc Bifacial Module 655W

 Climate: Temperate Monsoon Climate

 Time: December 2022



The “Economic Key” on Saline-Alkali Land

Shouguang, “China’s Salt Capital,” is where “Susashi” — the trailblazer of ancient sea salt production — boiled seawater for salt. Five millennia later, Solargiga’s high-efficiency modules pioneer a new “salt-photovoltaic complementarity” model on this saline-alkali land.

Shandong Lubei National Wind-Solar Base’s 250MW Phase (Sungrow Renewables Development-invested) is in Shouguang, Shandong — a land-sea bordered area with abundant sunshine and a warm temperate monsoon semi-humid continental climate. Solargiga’s 655W monocrystalline bifacial module PERC modules (30-year linear power warranty) ensure long-term stability, high generation, and solid customer investment protection.

“PV + Salt: Dual Benefits for Saline-Alkali Land”. A key national wind-solar base and Shandong’s 14th Five-Year Plan project, the Shandong Lubei Gigawatt-level Wind-Solar-Storage Base will generate ~2.6 billion kWh yearly (output value >RMB 1 billion) upon full operation, replacing 820,000 tonnes of standard coal and cutting 2.13 million tonnes of CO₂ annually.

Production Workshops at Full Throttle

This task once again reflected Solargiga’s commitment as a leading PV manufacturer to “operate with integrity, prioritizing customer interests.” Facing the challenge of completing large-volume module supply within 2-3 months, Solargiga set clear goals for timeliness and efficiency, organizing various departments and production workshops to work orderly. Solargiga has always ensured production needs through strategic cooperation with suppliers, making every effort to coordinate with customers to complete project delivery, receiving consistent praise from domestic and international customers.

Breaking Through the Last “1 Kilometer” Obstacle

In addition to completing production tasks through overtime work, ensuring logistics and transportation was also a top priority in “guaranteeing supply”.

At that time, pandemic restrictions in China had not yet been lifted, significantly impacting logistics. How to deliver products to customers on time and overcome the final “one-kilometer” obstacle became a common challenge for many domestic trades. In response, Solargiga Energy chose to pre-plan transportation routes, engage large logistics providers, and arrange staff for point-to-point handover of goods. Ultimately, Solargiga’s module were successfully delivered to customers, ensuring both supply timeliness and customer interests.


As the new energy project development and investment platform under Sungrow Power Supply, Sungrow Renewables Development has taken the lead in exploring green development models that integrate multi-energy complementarity and industrial synergy, consistently staying at the forefront of the industry. Over the years, Solargiga Energy and Sungrow Renewables Development have maintained a strong cooperative relationship, working together to advance the green new energy industry and achieve mutual benefits for all parties involved.


Kaiping, Guangdong | 150 MW PV Project



 Location:
Kaiping, Guangdong

 Type:
Agri-PV + Fishery-PV

 Capacity:
150MW

 Product: Perc Bifacial Module 445W / 545W

 Climate: Subtropical Monsoon Climate

 Time: November 2022



“Triple” Benefits

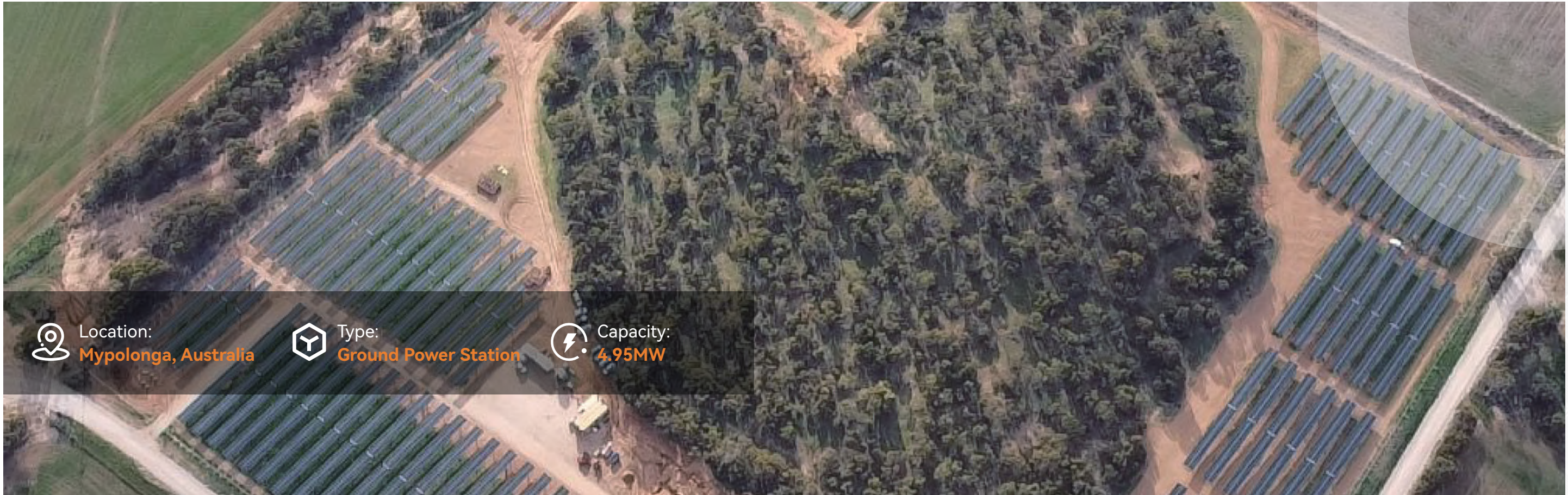
Kaiping of Jiangmen City, the “Fictional Jinghai City” in the popular TV drama the Knockout, featured by watchtowers, is well-known for being the “Hometown of Overseas Chinese”. The 150MW PV Project in Kaiping City, Guang-dong Province is developed in two phases. 445W (100MW) and 545W (50MW) monocrystalline bifacial module half-cut modules in GIGA-P series modules of Solargiga Energy are adopted, respectively. As a star product mainly promoted by Solargiga Energy, GIGA series modules have been highly recognized by customers from more than 30 countries and regions around the world. The products have multiple advantages such as long service life, high-efficiency and high power generation capacity, which can not only ensure the stable operation of the owner’s assets within the 30-year power warranty period, but also create excess power generation benefits for customers.

It is worth mentioning that a new power generation mode of “agriculture-solar hybrid + fishery-solar hybrid” was adopted for the 150MW PV Project in Kaiping City, Guangdong Province, with PV power generation above the panel and agricultural planting and fishery beneath the panel, realizing triple economic benefits of the organic combination of electric power with agriculture and fishery while meeting the demand for electric power of neighboring areas. From a high-altitude view, cultivated lands, fishing fields and PV modules form a magnificent picture.

“Double” Typhoons

Summer and autumn in Kaiping of Guangdong Province, a city located in the southeast coastal region of China, are often accompanied by rainwater and typhoon, which pose higher requirements for anti-typhoon capability of modules. Up to now, the 150MW PV Project in Kaiping City, Guangdong Province has been put into operation for nearly 10 months. Having gone through two massive typhoons, the project, steadily withstood the “typhoon tests”, and can still maintain stable operation and good power generation performance, showcasing the resilience of Solargiga Energy’s modules.

Mypolonga, Australia | 4.95 MW Kerta Solar Power Station



Location:
Mypolonga, Australia

Type:
Ground Power Station

Capacity:
4.95MW

Product: Perc Bifacial Module 405W

Climate: Mediterranean climate

Time: August 2022



A heart-shaped solar farm

Here's Mypolonga, a town in South Australia along the river Murray, and a place where an amazing solar farm featuring a botanical heart is located.

On August 22, Green Gold Energy, who is the project owner of the Kerta Solar Farm, announced the completion of the installation of this 4.95MW project in Mypolonga, SA. The solar farm, also named as "love-heart" project, was commenced on 26 April 2022. The sizable heart-shaped thicket in the middle makes it worthy of the name and clearly identifiable from the air.

Mypolonga, which is about an hour's drive from Adelaide, is an agricultural town with more than 450 residents. By the time it is commissioned in September of this year, the Kerta Solar Farm, which uses more than 12,000 pieces of 405W bifacial module from Solargiga Energy, will be able to supply over 1,300 households with approx. 9,303 MWh of electricity annually, covering the entire town's electricity needs while saving about 9,000 tons of CO₂ emissions.

Seamless Service Across Time Zones

With installed solar capacity ranked eighth globally, according to BNEF, Australia is one of the most promising markets and is forging ahead in the world of new energy to make its own contribution to carbon neutrality by 2050. The Kerta Solar Farm is seen as the turning point in our march into the Australian market, together with another solar farm in Port Augusta that will be finished with our 400W modules. Solargiga Energy offers customers professional guidance, fast Q&A services, and advice on the solar farm's ongoing maintenance in order to ensure a successful carrying-out of the installation. Customer needs are constantly prioritized by Solargiga Energy.

Global Expansion, Empowering a Clean Future

Solargiga Energy is actively expanding business in Europe, North America, Australia, and South America while anchoring in the Asian market by virtue of its stable developing pace and industry-leading order fulfilment capability. By delivering our products and services in a worldwide range, Solargiga Energy is echoing the shared calling for a cleaner and better world.

Dalate Banner, Inner Mongolia | 2 GW Ground-Mounted Power Station



Location:
Dalate, Inner Mongolia

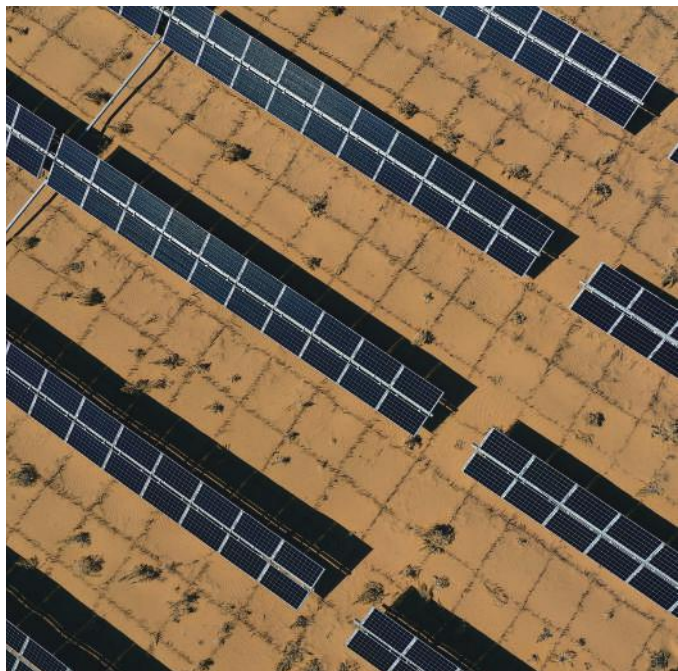
Type:
Ground Power Station

Capacity:
2GW

Product: Perc Bifacial Module 310W / 405W

Climate: Temperate Continental Climate

Time: May 2020



In Dalate Banner, Inner Mongolia, a giant blue “steed” gallops, appearing particularly magnificent amidst the wind-swept Kubuqi Desert. This is not a giant sand painting; it is the Inner Mongolia Dalate Power Station, certified by Guinness World Records as the world's largest graphical power station composed of PV panels. The 300MW of monocrystalline modules supplied by Solargiga for it have been operating stably in this vast desert for 4 years.

A Guinness World Record “Horse”

The Dalate Power Station in Inner Mongolia has ingeniously utilized the color contrast between the blue photovoltaic panels and the surrounding vegetation and yellow sand to arrange 196,320 panels into a magnificent horse totem. This configuration resembles a spirited steed galloping freely across the vast desert. The clean energy generated flows like veins through the horse, continuously transmitting a steady stream of electricity outward.

Solargiga Modules Light Up the Desert

The Inner Mongolia Dalate PV Power Station covers 100,000 mu of land. It was the first power station among the third batch of national Top Runner key PV projects to achieve full capacity grid connection. The station uses Solargiga's advanced PERC monocrystalline high-efficiency bifacial module to achieve high efficiency and high power generation. As one of the PV module suppliers for this power station project, Solargiga provided 310W bifacial modules for the first phase of the Dalate Station in 2019 and 405W bifacial modules for the second phase in 2020.

To ensure smooth power station installation, Solargiga offers full-lifecycle services — end-to-end tracking from R&D, supply to post-installation O&M. Customer-centric, it delivers desert light to Dalate via reliable collaboration.

From “Sea of Death” to “Economic Oasis”

It has been four years since the official operation of the Inner Mongolia Dalate Power Station. Since its operation, the Inner Mongolia Dalate Power Station has cumulatively output approximately 2.312 billion kWh of green electricity, equivalent to saving 760,000 tons of standard coal and reducing CO₂ emissions by 1.85 million tons. To improve PV desert control effectiveness, besides generating electricity on the panels, the station also plants *Astragalus*, *Elaeagnus angustifolia*, *Scutellaria baicalensis*, and other plants between the panels, achieving “forest-light complementarity” and functions of wind-breaking and sand fixation, effectively curbing the expansion of the Kubuqi Desert. This not only brings economic benefits to local residents but also creates social benefits, achieving the dual significance of desert control and ecological restoration.

The above-expectation power generation performance stems from Solargiga's meticulous craftsmanship in product quality and continuous innovation in high-efficiency technology. Solargiga's PERC monocrystalline high-efficiency bifacial module primarily utilize half-cut cell, multi-busbar and other advanced technologies. These innovations not only provide each module with more uniform current collection capability but also deliver excellent anti-PID performance while reducing internal current loss, ultimately ensuring stable power output from the modules.

Zimbabwe | 2 MW Ground-Mounted Power Station



 Location:
Zimbabwe

 Type:
Ground Power Station

 Capacity:
2MW

 Product: Perc Mono Module 550W

 Climate: Tropical Savanna Climate

 Time: February 2025

Superior Component Quality and Reliability

Zimbabwe’s 2MW mining-area PV project (hereinafter referred to as “the project”) adopts Solargiga’s Giga series 550W modules. Built with advanced technology and high-quality materials, the modules feature strong wind-sand and high-temperature resistance, having passed enhanced tests including sand-dust and long-term high-temperature weathering. Proven reliable in extreme environments (hot-humid Hainan, hot-dry Turpan, high-altitude Lhasa, and frigid Mohe), they lead the industry in quality and ensure stable operation of the power station amid the mining area’s complex climate, heavy sand-dust and harsh geography.

Solargiga’s African team collaborated on-site, strictly controlling planning, installation and grid connection. Now grid-connected, the project delivers stable green power to boost mining efficiency and drive local energy toward sustainability.


Favorable Geographical Location


Zimbabwe is located between 15°-22° South latitude and 25°-33° East longitude, bordering Mozambique to the east and South Africa to the south, a landlocked country in southeastern Africa. It is endowed with unique solar energy resources, with high radiation intensity, annual sunshine duration over 3,000 hours, and an average annual solar power potential of about 359 kWh/m². The solar PV power generation potential is about 109GW, but the total installed PV capacity is relatively limited, accounting for a relatively low proportion in the national energy supply.


Broad Market Prospects


In recent years, the Zimbabwean government has actively promoted the development of the local solar industry. As early as 2019, it formulated the “Zimbabwe National Renewable Energy Policy,” planning to deploy 1 GW of clean energy capacity by 2025. In 2024, Mr. Washington Zhakata from Zimbabwe was appointed Vice-Chair of the Adaptation Fund Board under the UNFCCC; this not only highlights Zimbabwe’s key role in global climate governance but also marks its increasing influence in international climate negotiations and its firm commitment to addressing climate-related challenges. Against this backdrop, with abundant solar resources, the Zimbabwe PV market shows significant development potential.


Xinzhou, Shanxi | 50 MW Ground-Mounted Power Station





 Location:
Xinzhou, Shanxi

 Type:
Ground Power Station

 Capacity:
50MW

 Product: Perc Bifacial Module 545W

 Climate: Temperate Monsoon Climate

 Time: January 2025

PV Paves a Poem Across Layered Ridges

Solargiga’s Shanxi Xinzhou project — a large-scale mountain centralized PV power station — is situated in sun-rich terrain of continuous steep mountains and deep valleys, with nearly 110,000 modules covering the layered ridges.

To meet the terrain’s high demands, the 50MW project adopts Solargiga’s Giga-P 72-cell half-cut bifacial module 545W. Their robust encapsulation and weather resistance, plus optimized mechanical strength, ensure reliable performance in complex conditions.

Expected to generate ~90 million kWh of clean electricity yearly, it will save ~23,000 tons of standard coal, cut ~76,000 tons of CO₂ and ~496 tons of SO₂ — advancing Xinzhou’s green transition and national “Dual Carbon” goals.

Courageously Breaking Through the Natural Moat of Mountain Transport

During the Shanxi Xinzhou project’s construction, complex mountainous terrain — with steep slopes, sharp bends and poor roads — posed great challenges for component transportation, as the 72 iron towers and 16 PV areas were widely distributed. Solargiga leveraged strong professional capabilities and logistics coordination. Its logistics and sales teams conducted in-depth on-site surveys, scientifically planned the transport scheme, and successfully delivered components to the site safely and on time, ensuring smooth project progress.

Service Empowerment – The Responsibility of the Solargiga Team

During the project construction, Solargiga dispatched professional sales and technical teams to be stationed on-site, providing technical consultation and guidance throughout every key link from project preparation to grid connection. Whether for module installation and debugging or subsequent operational maintenance, the team members went all out to ensure every module operated at its best, providing a solid guarantee for the project’s stable operation in the later stages. With all-round considerate service, Solargiga won high recognition from the client.

Part-2

Commercial & Industrial Solutions: Distributed and Rooftop Projects

MOKO Millennium Plaza, Hong Kong | 78.3kW Distributed Power Station

Kwu Tung Elderly Home, Hong Kong | 78.3kW Distributed Power Station

Qujing, Yunnan | 32.41MW Distributed Power Station

Yancheng, Jiangsu | Xifuhe Anti-Glare Floating Power Station

Eastern Cape, South Africa | 390kW Commercial & Industrial Power Station

Chachoengsao, Thailand | 700kW Distributed Power Station

Wuhu, Anhui | 3.8MW Floating Power Station

MOKO Plaza, Hong Kong | 78.3kW Distributed Power Station
Products: Bifacial Module 415W (2023)



Kwu Tung, Hong Kong (2023)
78.3kW Distributed Power Station



Qujing, Yunnan (2023)
32.41MW Distributed Power Station



Yancheng, Jiangsu | Xifuhe Anti-Glare Floating Power Station



Location:
Yancheng, Jiangsu

Type:
Distributed Power Station

Product: TOPCon Bifacial Module

Climate: Subtropical Monsoon Climate

Time: September 2025



Steadfast and Cost-Effective: Harnessing Power from Water

The Xifuhe Anti-Glare Floating PV plant in Yancheng utilizes an advanced floating PV system design. Its core lies in a precise anchoring system, which acts like an underwater root network, effectively resisting wind and wave impacts, ensuring the stability of the PV array. This technological breakthrough not only unlocks the vast energy potential of water surfaces but also marks the dawn of a new era in “harnessing power from water.”

Differentiating Edge: Socially-Friendly Solar

Glare has long plagued traditional floating solar plants. Yancheng Xifuhe Anti-Glare Floating Solar Power Station uses Solargiga Energy’s Giga-N anti-glare modules—featuring 94.1% light transmittance and precise microstructures—to convert harsh direct light into soft diffused light, cutting glare by 50%. This allows seamless integration with the surroundings (residents can fish nearby), boosting social acceptance and site flexibility for broader market prospects.

Dual-Core Drive: PV + Hydrogen = Efficiency Squared

The Yancheng Xifuhe plant goes beyond power generation. It acts as an efficient energy hub with a “PV-to-Electricity-to-Hydrogen” conversion system. Surplus daytime power produces green hydrogen via electrolysis, boosting total energy efficiency by 40%. This creates a stable, zero-carbon energy loop and opens new revenue streams.

Eastern Cape, South Africa | 390kW Commercial & Industrial Power Station




 Location:
Eastern Cape Province, South Africa

 Type:
Commercial & Industrial Power Station

 Capacity:
390kW

 Product: Perc Mono Module 550W

 Climate: Mediterranean Climate

 Time: July 2024



About the Most Beautiful Place in South Africa

390 kW Photovoltaic Project in Eastern Cape, South Africa used Giga series 550W mono modules produced by Solargiga Energy. It was officially connected to the grid in July this year and operated smoothly in its first month of operation.

It is often said that you will not stop searching for the most beautiful place in South Africa until you come to the Eastern Cape. The Eastern Cape is located in the southern part of South Africa. The cold Atlantic Ocean and the warm Indian Ocean meet here to form a magnificent sunny coastline stretching for 820 kilometers. A cruise ship loaded with Solargiga Energy's modules traveled across the South China Sea, the Strait of Malacca, and the Indian Ocean to a port in South Africa.

About Our End-to-End Customer Service

In the process of cooperation between Solargiga Energy and the customer, Solargiga Energy's whole-process pre-sales, in-sales and after-sales services were affirmed and recognized by the customer. Since the initial planning stage of the Project, we actively communicated with the customer to understand its needs and expectations. At the project construction stage, Solargiga Energy's sales team always engaged in front-line work and paid close attention to the logistics progress and construction progress, ensuring the completion of the Project according to the established timeline and quality standards. After the completion of the Project, Solargiga Energy will also provide the customer with technical support and other after-sales services.

About the PV Market in South Africa

The Giga series 550W mono modules provided by Solargiga Energy for the Project not only have significant advantages such as high power, high-efficiency, high reliability, and high energy output, but also pass 5-10 times IEC extended stress testing, proving that they can perfectly adapt to the climatic conditions of high temperature and high humidity in South Africa. In addition, Solargiga Energy also has established professional sales teams in South Africa to work together to quickly respond to the needs of end customers.

In recent years, Solargiga Energy has actively responded to the Belt and Road Initiative and vigorously expanded its market in South Africa. With its advanced technology and strict quality control, Solargiga Energy has provided high-quality photovoltaic modules for South Africa and promoted energy cooperation and exchanges between China and Africa. In the future, Solargiga Energy will continue to fully exploit its advantages to bring green energy to more regions around the world and strive for sustainable development.


Chachoengsao, Thailand | 700kW Distributed Power Station



 Location:
Chachoengsao Province, Thailand

 Type:
Rooftop PV System

 Capacity:
700kW

 Product: Perc Mono Module 545W / 555W

 Climate: Tropical Monsoon Climate

 Time: March 2023



Solargiga Powers Multinational Client with High-Efficiency Modules

In March 2023, Atlas Copco Thailand successfully commissioned a rooftop PV system at its facility in Chachoengsao province. The approximately 700 kW system is fully equipped with high-efficiency solar modules supplied by Solargiga.

As an established module manufacturer, Solargiga is committed to deepening its presence in Thailand and across Southeast Asia. For this project, the JMPV-X1/72-545~555(R) modules were installed on the office building of Atlas Copco Thailand at Wellgrow Industrial Estate.

Atlas Copco, founded in 1873, is a global industrial group. This project showcases Solargiga's capability to support multinational corporations in their renewable energy initiatives.

Green Economic Benefits

Once operational, the solar system will supply approximately 600,000 kWh of clean electricity annually, offsetting a significant portion of the office building's power consumption. Solargiga demonstrates its commitment to sustainable and reliable energy solutions, supporting Southeast Asia's transition to greener power generation.

Thailand, an emerging solar market and the region's second-largest economy, boasts excellent solar resources with an average annual irradiation of 1,200~1,400 kWh/m²/year. Favorable tariffs and cost advantages are strengthening Southeast Asia's position in the global PV sector. According to the International Renewable Energy Agency, the region's natural potential for solar energy is exceptional, with ASEAN countries expected to add up to 64 GW of new solar capacity annually by 2050.

Solargiga has established long-term, stable customer relationships in Thailand, offering tailored procurement channels and professional sustainable solutions. Moving forward, Solargiga will use Thailand and other Southeast Asian markets as a springboard to further expand its global manufacturing footprint.

Wuhu, Anhui | 3.8MW Floating Power Station



Location:
Wuhu, Anhui

Type:
Distributed PV power station

Capacity:
3.8MW

Climate: Subtropical Humid Monsoon Climate

Time: February 2023



“PV New Attire” Beautifies Conch Group's Industrial Park

Upon entering Anhui Baima Mountain Conch Cement Plant, one finds ponds and refractory material rooftops covered with neatly arranged PV modules, as if the plant has been clad in a new “PV attire.” From above, these modules complement the factory buildings and greenery, creating a unique picture of industrial-natural harmony.

As an industry leader, Conch Group treats environmental protection as its core principle. Guided by a development strategy focusing on smart, digital, and green transformation, it strives to become an eco-friendly and resource-efficient enterprise. In recent years, Conch has actively expanded into new energy and increased its use of clean power. Its 3.8MW distributed PV project at the Baima Mountain plant, equipped entirely with Solargiga's 545W monocrystalline modules installed on ponds and roofs, not only supplies stable green energy but also marks a key step in the Group's green development journey.

“Marathon Philosophy”: 2 Years of Stable, Zero-Fault Operation

The Baima Mountain Conch Cement 3.8MW distributed PV project has now been operating stably for two years. Particularly for its floating PV section, Solargiga has demonstrated the “marathon philosophy” of such installations through long-term performance.

Before the project, a dedicated technical team conducted detailed surveys of the pond's geography, sunlight, and climate, providing a scientific basis for component selection and layout. Grid connection was achieved in just six months. Post-connection, a comprehensive O&M service system was established, ensuring the plant's long-term stable operation through prompt response and issue resolution.

“Rock-Solid Quality”: Products That Endure

Floating solar plants face greater cost and durability challenges than ground-based systems, operating in humid, high-humidity, high-salinity environments that demand superior components.

Solargiga's marine-grade PV modules feature maximum salt corrosion resistance for long-term use in harsh conditions. Their double-layer coating enhances durability, while specialized connector seals prevent moisture-related failures—ensuring reliable operation and long-term returns.

These modules perform consistently across lakes, coasts, and offshore sites. Compatible with fixed, flexible, and floating mounts, they adapt to various installations. The polyurethane composite frame combines protection with aesthetics, offering color customization to blend with any environment.

Part-3

Future Integration: Building-Integrated PV and Broad Applications

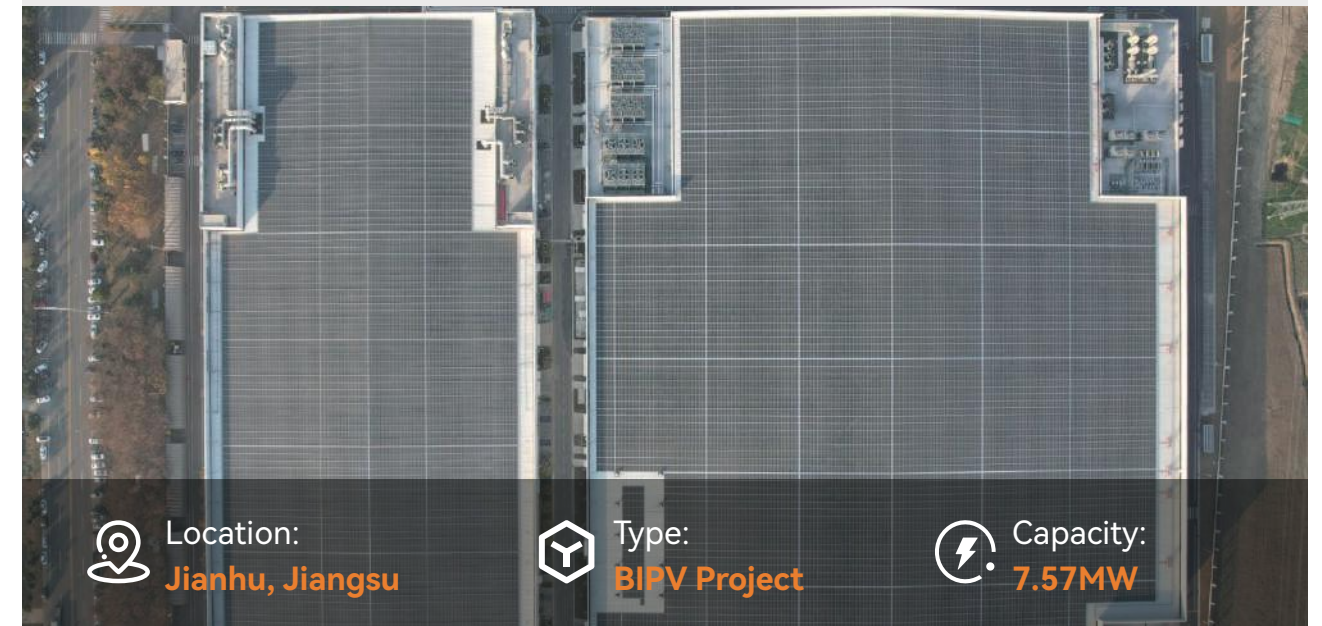
Jianhu, Jiangsu | 7.57MW BIPV Project

Qujing, Yunnan | 601.98kW High-Rise Facade BIPV Project

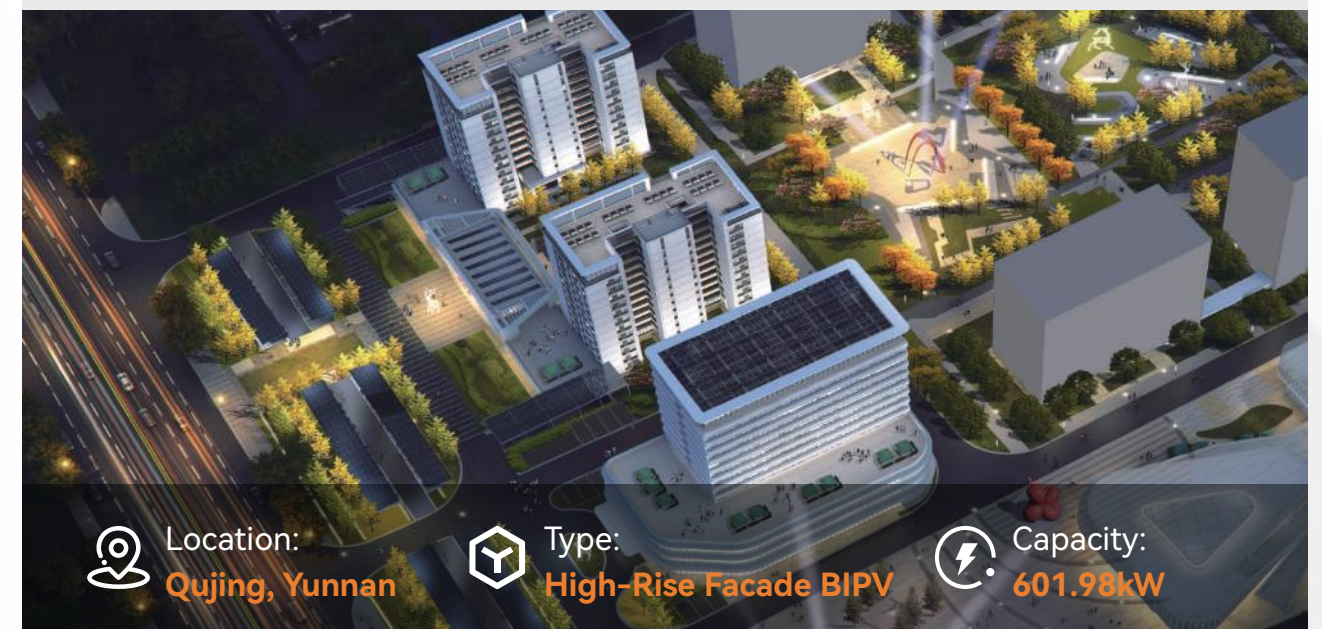
Jianhu, Jiangsu | 10.84MW BIPV Project

BIPV Facade Design | Jianhu Financial Center

Jianhu, Jiangsu | 7.57MW BIPV Project (2023)



Qujing, Yunnan | 601.98kW High-Rise Facade BIPV Project (2023)



Jianhu, Jiangsu | 10.84MW BIPV Project
Products: 380W / 435W / 445W (2021)



Location: **Jianhu, Jiangsu** Type: **BIPV PV Power Station** Capacity: **10.84MW**

★ BIPV Core Features

Building Integration: Seamlessly merges with structures (roofs, facades, sunshades), serving dual roles in power generation and building envelope, unlike attached BAPV systems.

Modular Design: Uses standardized components for flexible prefabricated installation, adaptable to diverse architectural forms.

Multi-Functionality: Integrates waterproofing, fire resistance, shading, daylighting, and insulation—beyond mere power generation.

Component Variety: Offers crystalline silicon, CdTe, CIGS, etc., with options for transparency, colors, and flexibility.

💎 Core Applications

BIPV Alternative to Color Steel Tiles Scenarios: Existing/Newly-build Factories: Overlay installation (without damaging the original structure) or synchronous construction, 25-year maintenance-free; Sewage Treatment Plants/Waterworks: Long-span portal steel frame design, reducing algae growth and improving sewage treatment capacity; Parking Lots: Integrating sunshade, rain-shelter and power generation functions, suitable for large-area parking spaces such as government compounds and factory areas.

BIPV Curtain Wall Scenarios: Public Commercial Buildings: Colored transparent curtain walls, daylighting roofs, and horizontal sunshades, suitable for financial centers, exhibition halls, etc.; Special Buildings: Zero-carbon cabins (off-grid operation, suitable for scenic areas, islands, etc.), urban exhibition halls (demonstration green buildings).

Green Building Supporting Scenarios: Ultra-low/Near-zero Energy Consumption Buildings, Improve the utilization rate of renewable energy through photovoltaic applications to support the achievement of Three-Star Green Building Certification.

Renovation of Existing Buildings: Replacing Rusty Color Steel Tiles to Simultaneously Achieve Energy Conservation and Power Generation Upgrades.

BIPV Curtain Wall Design | Jianhu Financial Center



Location: **Jianhu, Jiangsu** Type: **BIPV Curtain Wall**

The original design for the Jianhu County Financial and Government Service Center featured a modern style, with the tower outlined by vertical lines for a tall and stable form. The podium roof was designed as a green roof for rest and activities, beneficial for building insulation and providing outdoor space, making the design already architecturally feasible.

To implement the central carbon peak directives and comply with provincial requirements for the “Green Building Creation Action Plan,” aiming for zero-energy consumption buildings and Three-Star Green Building certification, Jiangsu New Sunshine collaborated with Zhuhai Xingye Green Building Design Institute to refine the design for the Jianhu County Financial and Government Service Center. Through the rational application of solar energy, they created a green, zero-energy consumption building integrated with photovoltaics (BIPV).

Part-4

Green Commitment:

Innovative Applications and Zero-Carbon Pioneering

Jinzhou, Liaoning | Bijiaoshan Zero-Carbon Coastal Park

Jinzhou, Liaoning | Solargiga Integrated PV, Storage & Charging Station

Yancheng, Jiangsu | Xifuhe Green Low-Carbon Sci-Tech Park Zero-Carbon Station

Nanjing, Jiangsu | Longpan Middle Road Bus Park

Nanjing, Jiangsu | Jiangxinzhou Zero-Carbon Demonstration Island

Jinzhou, Liaoning | Bijiaoshan Zero-Carbon Coastal Park



Jinzhou, Liaoning | Solargiga Integrated PV, Storage & Charging Station



Yancheng, Jiangsu | Xifuhe Green Low-Carbon Sci-Tech Park Zero-Carbon Station



Nanjing, Jiangsu | Longpan Middle Road Bus Park



Nanjing, Jiangsu | Jiangxinzhou Zero-Carbon Demonstration Island



Nanjing Jiangxinzhou Zero-Carbon Demonstration Island is a benchmark for green, low-carbon building applications, focused on the “Dual Carbon” goals. Using zero-carbon mobile buildings as the core, it integrates diverse facilities such as zero-carbon homestays, mobile stations, and eco-toilets, creating a low-carbon ecological scenario where “the building itself is a power plant.” Building upon Jiangxinzhou’s ecological foundation, the island deeply integrates PV new energy with prefabricated buildings. It meets practical needs for cultural tourism, leisure, and public services while achieving self-sufficient, zero-carbon operation, serving as a typical model for the green transformation of urban ecological islands.

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