2022

Trina Solar 210 Reference Projects

Power Beyond Solar

600W+ Reference Project

Dachaidan 112MW PV Power Station Project

With a vast area and an average altitude of more than 3,400 meters, the Dachaidan region provides abundant solar resources, which makes it an ideal location for solar power plant. To maximize the efficiency, the owner, Concord New Energy looked for PV modules with high energy yield and great reliability. After cautious comparison, the project was nominated for Trina Solar's 210 670W Vertex series of most advanced ultra-high power modules, which can tolerate any desert environment with high altitude, heavy sand-wind and huge temperature difference.

210 Vertex
670W Series/ Bifacial
PV Modules

100MW
System Scale

Sep,2021
Commercial
Operation Time

Dachaidan, Qinghai
Province , China
Location

Wutumeiren 50MW parity PV Power Station Project

This project is located at Wutumeiren solar park, Golmud City, Qinghai. The overall project scale reaches up tp 50MW. The average annual power generation is estimated to be 1950 equivalent utilization hours after the project is completed. The gobi desert environment, heavy sand-wind weathers and large temperature differences will not influence project's operation; high power generation and high reliability of 210mm 670W Vertex ultra-high power modules can fully meet customer needs.

210 Vertex
670W Series/ Bifacial

PV Modules

50MW

System Scale

Year 2022

Commercial Operation Time

Wutumeiren, Qinghai Province,China

Location

Nandagang 70MW Aquaculture-complementary Solar Power Station

This project is located at Nandagang industry park, Cangzhou, Heibei， facing Bohai sea on the east, adjacent to Beijing-Tianjin on the north. The place also has many saline lands and beach resources. Concord New Energy takes good advantages of local fishery economic growth, and develops this Aquaculture-complementary solar power station. The porject continues to use Trina Solar's 670W Vertex sereis ultra-high power modules ever since Dachaidan 112MW PV power station project has completed grid connection.

210 Vertex
670W Series/ Bifacial

PV Modules

70MW

System Scale

Year 2022

Commercial Operation Time

Nandagang, Hebei Province,China

Location

Miyazaki PV Power Station Project ,Japan

The project is located in the town of Kawa-Minami, Miyazaki Prefecture in southern Japan, which enjoys 2,000 hours of sunshine a year, and has winters unaffected by monsoons.After thoroughly comparing various solutions, the customer chose Trina Solar's 670W Vertex series of ultra-high power modules.

210 Vertex
670W Series/ Bifacial
PV Modules

0.4MW
System Scale

Oct,2021
Commercial Operation Time

Miyazaki,Japan
Location

Ahlen PV Power Station Project, Germany

Trina Solar, a leading global PV and smart energy total solution provider, has delivered its ultra-high power Vertex 670W module series to customer Schoenergie in Germany. Mass production of this latest and strongest 210mm module is already in full swing. The Vertex 670W module is designed to minimize LCOE in utility-scale projects and enjoys a highly favorable reception in the European marketplace.

210 Vertex 670W Series/ Bifacial	0.4MW	Year 2022	Ahlen,Germany
PV Modules	System Scale	Commercial Operation Time	Location

Evershining Ingredient Power Station Project, Thailand

The installation provides over 810kW of power to spread over an area of 8,820 sqm. This is the 1st Vertex DE21 module project in Thailand as well as the first rooftop project in Thailand using such high power modules.

210 Vertex
670W Series/ Backsheet
Modules

810 kW
System Scale

February, 2022
Commercial
Operation Time

Samut Songkram,
Thailand
Location

2MW C&I Rooftop Project in Shandong, China

On a big-scale factory rooftop in Linyi, Shandong, 2MW C&I project has been successfully installed! The total installed rooftop area is around 40,000m2. The project has utilized 210 Vertex 600W+ ultra-high power modules and will complete grid connection before the end of 2021.

210 Vertex 600W Series/ Backsheet	2MW	December, 2021	Linyi, Shandong Province,China
PV Modules	System Scale	Commercial Operation Time	Location

Beijing BAXY Factory 1.2MW C&I Rooftop Project

The factory roof of Beijing Ailai Faxi Food Co., Ltd., located in Jinma Industrial Park, Shunyi District, Beijing, is also installed with 600W+ ultra-high power modules, became the first 600W+ distributed C&I rooftop project in Beijing. The project uses Trina Solar's 600W+ ultra-high power modules and Huawei inverters, with a total installed capacity of 1.2MW. The entire photovoltaic power station is connected to the national grid at 380V voltage, and the consumption method is "self-generated and self-consumption, while rest of the electricity is connected to the grid".

210 Vertex 600W Series/Backsheet	1.2MW	Dec,2021	Beijing,China
Modules	System Scale	Commercial Operation Time	Location

Tianneng Group 21MW C&I Rooftop Project in Huzhou

On the factory roof of Zhejiang Tianneng Group, the 210 vertex series 600W+ modules looks spectacular. Around 10MW of C&I distributed photovoltaic projects include the first and second phases will be completed soon, and the overall project scale will reach 21MW. It is planned to be connected to the grid in the spring of 2022. This large blue power plant will provide a steady stream of green energy for Tianneng Group.

210 Vertex
600W Series/Backsheet
Modules

21MW
System Scale

Dec,2021
Commercial
Operation Time

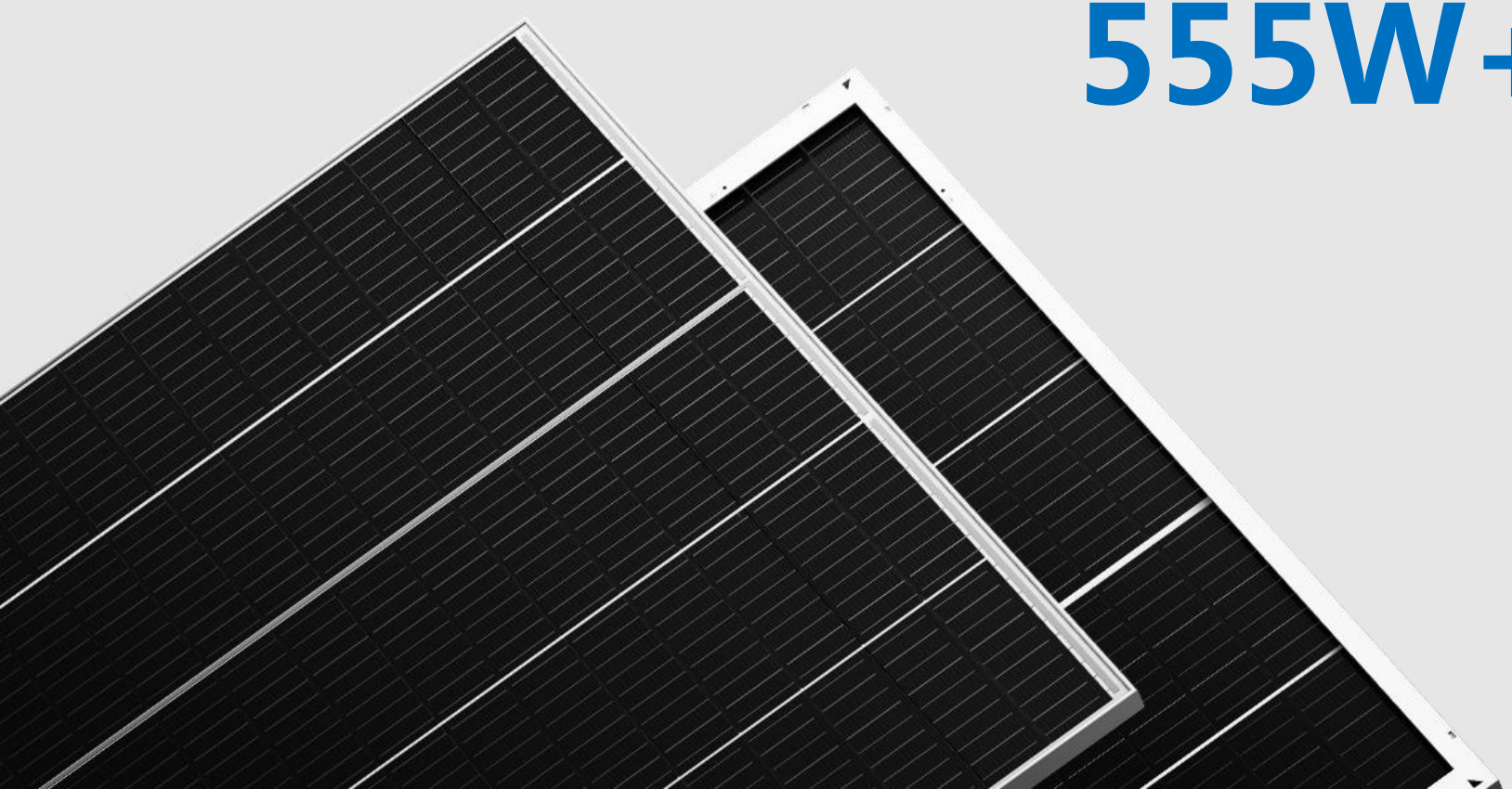
Huzhou, Zhejiang
Province,China
Location

Residential project in Yiyuan county, Zibo, Shandong

This scattered county is located in Yiyuan county, Zibo, Shandong. From one rooftop to more, this small village at the foot of the mountain will be gradually equipped with photovoltaic panels, turning itself into a "Photovoltaic Village". The residents here can earn extra income directly through grid connection for over 10,000 RMB each year. All 210 Vertex 600W+ ultra-high power modules used in this project are connected to the intelligent cloud platform. Customers can view their benefits by a single click at home. Trina Solar ultra-high power modules bring more power generation, more returns and less cost to customers, to build a more beautiful green village.

210 Vertex 600W Series/Backsheet	21.6kW	December, 2021	Zibo, Shandong Province,China
PV Modules	System Scale	Commercial Operation Time	Location

555W+ Reference Project



Nangong Guoshun 400MW Agricultural PV Complementary Project

The project is located in about 40 natural villages in Nangong City, Duan Lutou Town and Minghua Town, where Trina Solar 210 modules and trackers form the strongest combinition, eliminating the difficult pain point of mismatch of modules and trackers that plague customers, and embedding "Trina Blue" into this vast rural land.

210 Vertex 555W Series/ Bifacial	400MW	Vanguard 2P	Nangong, Hebei Province,China
PV Modules	System Scale	Trackers	Location

Luotian 100MW Agro-solar Hybrid PV Power Generation Project

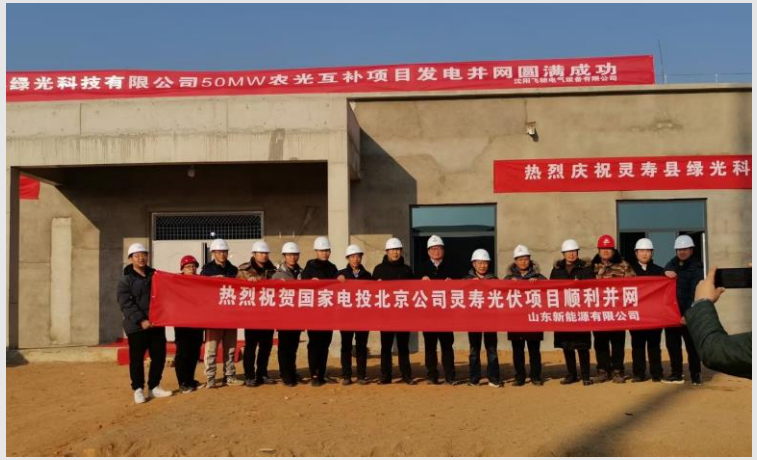
The project covers an area of 2,400 mu, with a total project investment of about 600 million RMB. It is expected to generate 110 million kWh of electricity on average per year, saving 42,000 tons of standard coal and reducing carbon dioxide emissions by about 104,500 tons per year. The project adopts high-current inverter, which is perfectly adapted to the Vertex module, not only realizing higher power generation and safer operation, but also excellent performance in weak power stability and intelligent operation and maintenance.

After full verification in the market, the high-current inverter not only can match, but also has more advantages with the matching application of 210 modules, which can give full play to the high-efficiency power generation advantages of ultra-high-power modules.

210 Vertex 555W Series/ Bifacial	100MW	Year 2021	Huanggang, Hubai Province,China
PV Modules	System Scale	Commercial Operation Time	Location

Hebei Shijiazhuang Lingshou County Agricultural and Solar Power Generation Project

This project is the first landing application of 210 Vertex ultra-high power modules in PV agricultural projects. Due to the use of ultra-high power modules, the number of pile foundations is significantly reduced, shortening the construction time and greatly reducing the construction cost, thus significantly reducing the overall cost of the power plant. According to the estimation, the BOS cost of the project can save 0.13 Yuan/W, and the BOS cost of the whole project can save 6.5 million.



210 Vertex 555W Series/ Bifacial	50MW	Dec, 2020	Lingshou,Hebei Province,China
PV Modules	System Scale	Commercial Operation Time	Location

Xinjiang Urho PV Power Generation Project

Based on the total installed capacity, tilted surface irradiation, system efficiency and nominal efficiency decay of PV modules, the average annual power generation of the PV power plant is calculated to be 85,623,800 kWh, with an average annual utilization hour of 1711.3h and a total power generation of about 2.14 billion kWh in 25 years. From solar resource utilization, power system supply and demand, project development conditions and the overall planning of this PV power plant project, it can increase the power supply to local power companies, promote sustainable regional economic development, promote energy and power structure adjustment, improve ecology, protect the environment and promote local economic development.

210 Vertex
555W Series/ Bifacial

PV Modules

50MW

System Scale

Dec, 2020

Commercial Operation Time

Karamay,
Xinjiang,China

Location

* This project is for communication purpose only.

Guantian Reservoir PV Power Generation Project in Guangdong

The project is located in Guantian reservoir in Suixi County, Zhanjiang, Guangdong, invested and constructed by Guangdong hydropower. This project has completed grid connection with full capacity in 2021, using 210 Vertex 555W modules. It covers a total area of about 540 mu and is divided into 15 photovoltaic subarray units. The average annual power generation is expected to be 59.71 million kWh, and the average annual utilization hours is expected to be 1194 hours in 2025.

210 Vertex 555W Series/ Bifacial	50MW	June, 2021	zhanjiang, Guangdong Province,China
PV Modules	System Scale	Commercial Operation Time	Location

PV Power Generation Project in Lithuania

Energy company Green Genius switched on solar schemes in 2021 in Lithuania comprising almost 21,000 Trina Solar Vertex modules. Of which,centrally located Žeimiai PV Park's 8000+ module installation represents another large-scale development in Lithuania's power infrastructure.Designed to withstand a wide range of weather conditions you would typically find in this part of Europe, the glass is durable and the product comes with a 30-year product workmanship warranty.

210 Vertex 555W Series/ Bifacial	4.2MW	July, 2021	Žeimiai, Lithuania
PV Modules	System Scale	Commercial Operation Time	Location

Residential project in Sri Lanka

Sri Lanka, meaning "A Land of Brightness and Abundance" in Sinhala, is known as the "Pearl of the Indian Ocean". The breathtaking scenery here mirrors the high performance and beautiful design of the Vertex distributed modules from Trina Solar. The project shown in the picture is located on a residential rooftop in Sri Lanka using Trina Solar's Vertex 550W modules. "This project generates a monthly income of 57,000 Sri Lankan rupees, equivalent to approximately 1,800 RMB," according to the house owner.

210 Vertex
555W Series/ Backsheet
PV Modules

22kW
System Scale

April, 2021
Commercial Operation Time

Sri Lanka
Location

C&I Project in Palestine

A 100kW C&I rooftop solar project is also established with our Vertex 550W modules. Clients are highly satisfied with the excellent performance of our products."We take Trinasolar as our most reliable partner, the product and service are always in high quality and standard, we look forward to the next cooperation with Trina!"

210 Vertex 555W Series/ Bifacial	100kW	June, 2021	Palestine
PV Modules	System Scale	Commercial Operation Time	Location

Daxing biomedical institution, Beijing

On 7th June, a C&I PV project was officially connected to the grid for power generation in Daxing biomedical institution, Beijing. The project contains a total installed capacity of 1.4MW. This project can allow owners to utilize self-generated electricity while connecting the unused electricity to the grid for extra income. The average annual power generation is expected to be 1.48 million kWh, which can reduce 1475.6 tons of carbon dioxide and save 463.2 tons of standard coal per year.

210 Vertex
555W Series/ Backsheet

PV Modules

1.4MW

System Scale

June, 2021

Commercial
Operation Time

Beijing

Location

Centro comercial Nuestro Atlántico Project

This project is located in Soledad, Atlántico, uses our 210 Vertex 555W series modules, has a scale of 320 kW. This project is located on the rooftop of Soledad Atlántico commercial center, is connected to the grid in 2022. Trina Solar is committed to promoting the use of new energy. Through the on-site investigation and design of professionals, this project can reduce carbon emissions and protect the environment while providing economic value to customers.

210 Vertex 555W Series/ Backsheet	320kW	Year 2022	Soledad, Atlántico
PV Modules	System Scale	Commercial Operation Time	Location

510W+ Reference Project

Shanxi Yulin Affordable Photovoltaic Power Plant Project

The project uses all Trina Solar's Vertex Series bifacial modules. The project covers an area of approximately 2,300 mu, and construction began in September 2020, with the project connected to the grid on December 10 - all in just 100 days. Since the grid connection, the daily power generation at the beginning of January this year has reached 600,000 kWh, and the power generation during the best generation time will be even higher, exceeding expectations by 40%.

210 Vertex 510W Series/Bifacial	100MW	Dec, 2020	Yulin, Shaanxi Province,China
PV Modules	System Scale	Commercial Operation Time	Location

Sembcorp Tengeh Floating Solar Farm , Singapore
——One of World's Largest Inland Floating Solar PV Systems

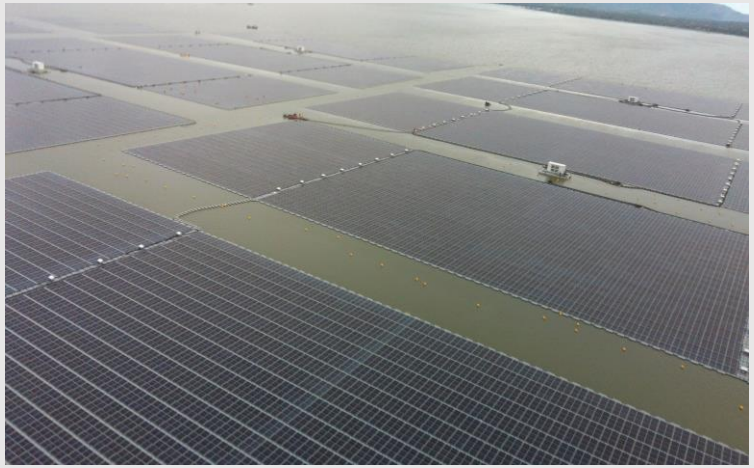
The project fitted with 122,000 Trina Solar 210 Vertex dual-glass modules has officially opened in July 2021. Owned by Sembcorp Floating Solar Singapore, a wholly-owned subsidiary of Sembcorp Industries, the Farm is a global showcase of excellent operational performance, innovation and reliability in floating solar photovoltaic (PV) systems.
At 60MWp, the floating solar PV system will generate enough energy to offset about 32 kilotons of carbon emissions annually, the same as taking 7,000 cars off the roads.

210 Vertex 510W Series/ Bifacial	60MW	July, 2021	Tengeh Reservoir, Singapore
PV Module	System Scale	Commercial Operation Time	Location

Vietnam Dam Tra O Solar Energy Factory Project

Trina 210 Vertex modules have gained fame and taken root in countries along the "Belt and Road", not only bringing clean power products to the "Belt and Road" related countries, but also vigorously promoting the pace of energy transformation in each country and helping them achieve green and leapfrog development. The company has not only brought clean power products to the countries along the "Belt and Road", but also vigorously promoted the pace of energy transformation in each country, bringing them a boost to achieve green and leapfrog development.

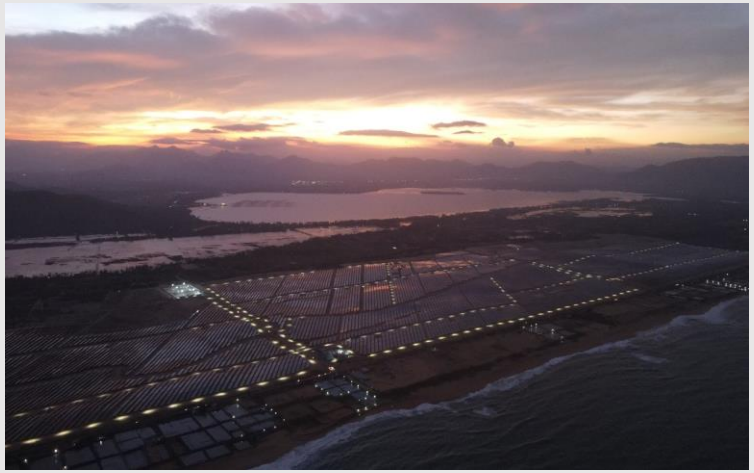
210 Vertex 510W Series/ Bifacial	50.6MW	Year 2020	My Loi Commune, Phu My District
PV Modules	System Scale	Commercial Operation Time	Location



Vietnam Vinh Long Photovoltaic Power Plant Project

The efficiency of 210 Supreme modules can reach up to 21%. With the advantages of high power and low voltage technology, it can significantly reduce the number of modules and strings, which in turn reduces the amount of pile foundation and construction time, achieving the goal of reducing cost and saving land. Based on the above advantages, BCG, the project owner, personally specified Trina 210 Supreme modules for supply, becoming a classic case of Chinese PV spreading green in Vietnam.
The project is expected to generate 67,368MWh of electricity annually, which can meet the annual electricity demand of 35,700 local households.

210 Vertex 510W Series/ Bifacial	49.3MW	Dec, 2020	Nha Trang City, Khanh Hoa Province, Vietnam
PV Modules	System Scale	Commercial Operation Time	Location



40MW Distributed Project in Vietnam

Vietnam has a tropical monsoon climate with an average annual temperature of about 24°C and an average annual rainfall of 1,500 to 2,000 mm. Trina Solar's 210 Vertex modules are designed with the weather resistance of the modules in mind, and the products ensure high reliability from product design, raw material control, and production processes.

210 Vertex 510W Series/Backsheet	40MW	Year 2020	Ho Chi Minh City, Vietnam
PV Modules	System Scale	Commercial Operation Time	Location

1MW Distributed Project in India

The whole area of India is hot, most of which belong to the tropical monsoon climate. It is the fifth largest photovoltaic installation country in the world. The project is located on the roof of a factory in the industrial city of Coimbatore in southern India. At present, the global order volume of Trina Solar's 210 Extreme Distributed Module products has broken through 4GW. For industrial and commercial and residential rooftop scenarios, it has been favored by overseas distributors and customers and received wide acclaim.

210 Vertex 510W / Backsheet	1MW	Year 2020	Coimbatore, India
PV Modules	System Scale	Commercial Operation Time	Location

177kW Distributed Project in Pakistan

The project locates in Anwar Khawaja Industries, Pakistan. The project used Trinasolar Vertex 510W module. The project owner has expressed the appreciation toward Trina Solar for the high-quality products and service.

210 Vertex 510W Series/ Bifacial	177kW	Year 2020	Pakistan
PV Modules	System Scale	Commercial Operation Time	Location

Lishui C&I Project

The project's design takes into account the owner's limited roof area and large electricity demand, and adopts a "herringbone" design with east-west orientation, and a BIPV design for the top of the stairwell to achieve the maximum installed capacity within a limited area. In terms of installation, the version design of the Vertex module makes the construction process reduce the number of secondary transportation, effectively reducing the cost of brackets, saving construction time, and better achieve the owner's demand for cost reduction.
After calculation, using 210 500W modules compared to conventional 166 series 450W modules, the cost of the system can save at least 8 cents per watt, while the owner's project return on investment is increased by at least 0.5%.

210 Vertex 510W Series/ Backsheet	400kW	Feb, 2021	Lishui, Zhejiang Province,China
PV Modules	System Scale	Commercial Operation Time	Location

C&I project in Bufeng Township

The solar town project in Jiangsu Province utilizes residential rooftop resources to install 3.43kw solar modules per rooftop. The project has optimized the available rooftop resources and reduced the electricity cost, the total installation capacity has reached up to 1.24MW, which provides 1200-degree free electricity. The project has contributed to the enhancement of local economic and social benefits greatly.

210 Vertex 510W Series/ Backsheet	1.24MW	Mar, 2021	Yancheng, Jiangsu Province,China
PV Modules	System Scale	Commercial Operation Time	Location

C&I project in Anhui, China

In the morning of 19th, July, the 9MW distributed solar plant by Ma'Anshan Iron and Steel Co., Ltd has successfully completed grid connection. The first year power capacity is up to 9,761,400kwh and the annual average power generation is around 8,758,000kwh within the overall lifecycle. The carbon emission will be reduced by 8,687,98 tons annually. The project has made huge contribution to accelerating corporate's energy structure upgrade, increase energy efficiency and achieve green and clean production.

210 Vertex 510W Series/ Backsheet	9MW	July, 2021	Ma'anshan, Anhui Province,China
PV Modules	System Scale	Commercial Operation Time	Location

Distributed Plant project in Gunma, Japan

Gunma county is known as the 3rd section in the Tokyo 2020 Olympic Torch Relay with a solid agricultural background. Trina Solar collaborated with Gunma on Ora-Cho High Voltage smart farm project using 210mm Vertex 510W+ modules. This project continuously provides green energy for local agriculture. Taking account of Gunma county's topography disadvantages, the difficulty level of completing PV projects is quite high. Thanks to the reliability and effectiveness of our modules, Trina Solar still managed to succeed in installation and execution.

210 Vertex 510W Series/ Bifacial	477.75kW	March, 2021	Gunma, Japan
PV Modules	System Scale	Commercial Operation Time	Location

Distributed Plant Project in Saitama, Japan

In Saitama prefecture, we built a 477.75kW Smart Farm project using our Vertex distributed modules. This project provides reliable green energy for local industrial depots and facilities. The first year power generation is around 589 thousand kWh, The total power generation can reach to 16.22 million kWh over 30 years.

210 Vertex
510W Series/ Bifacial
PV Modules

477.75kW
System Scale

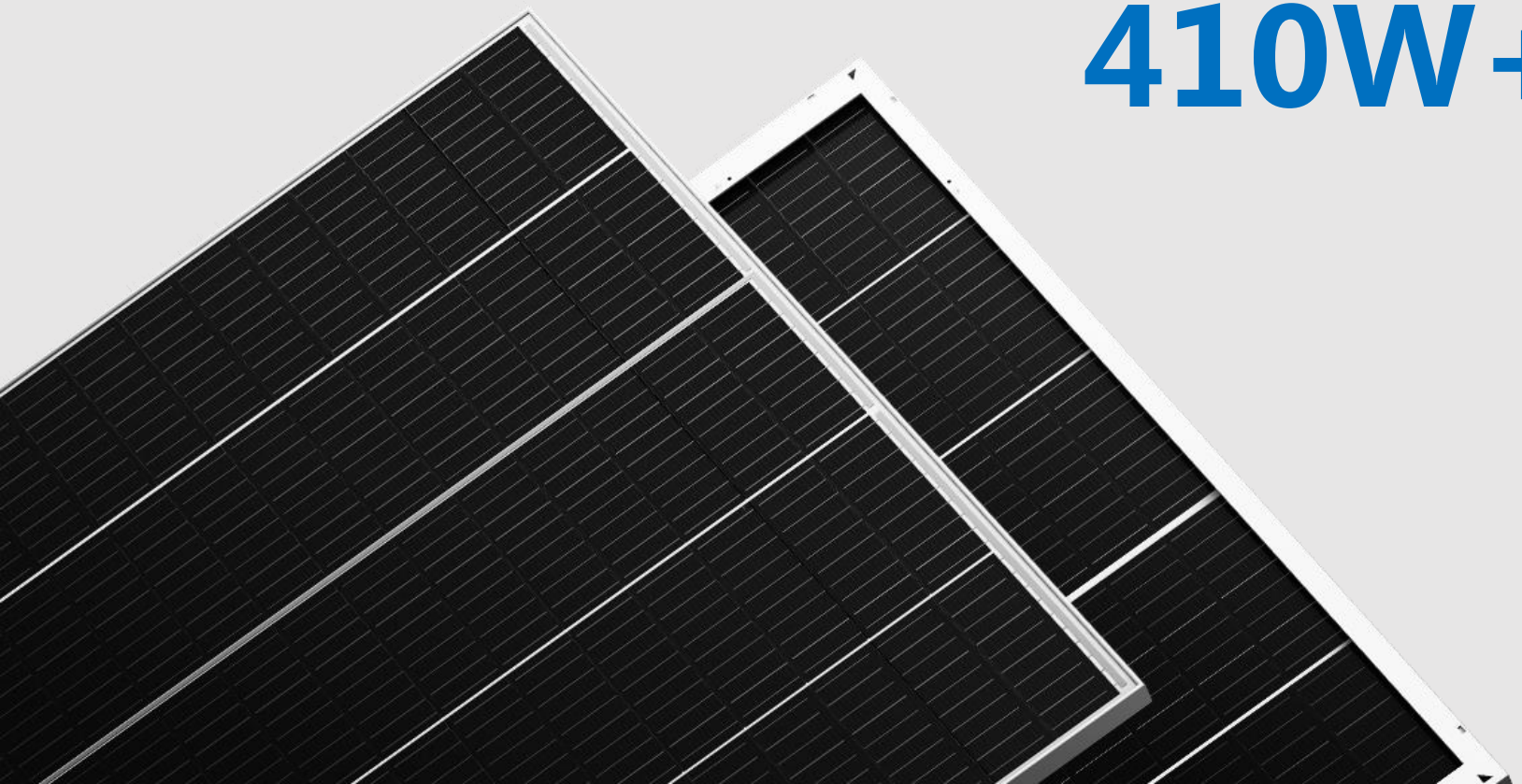
April, 2021
Commercial Operation Time

Saitama, Japan
Location

AGRO Industrial Project

This project is located in Managua, Nicaragua, uses our 210 Vertex 510W series modules, has a scale of 250 kW. The project is located in an agricultural production plant in Managua, the capital of Nicaragua. The climate of Managua belongs to the tropical rain forest climate, and there are many lakes around, which is a great test for the humidity resistance of photovoltaic modules. Trina Solar's 210 Vertex series modules, with their excellent module design and moisture resistance, can also function perfectly in wet areas, providing customers with higher benefits.

210 Vertex 510W Series/ Bifacial	250kW	Year 2022	Managua, Nicaragua
PV Modules	System Scale	Commercial Operation Time	Location



410W+ Reference Project

Belgium C&I project

The project is located in Belgium, Europe, cooperates with GPC Europe (Grid Parity Concepts Europe). The project uses Trina Vertex 410W modules (Vertex S) black frame version. This 520 modules project (flat roof) was an industrial project and has completed grid connection. The first year power capacity is up to 192,000kwh and the annual average power generation is around 174,000kwh within the overall lifecycle. The carbon emission will be reduced by 4,383 tons annually.

210 Vertex
410W Series/ Backsheet
PV Modules

208kW
System Scale

Year 2021
Commercial
Operation Time

Belgium, Europe
Location

C&I Project in Belgium, Europe

This C&I project locates on a factory rooftop in Belgium, Europe, which is the headquarter of EU. This project uses Trina Solar Vertex S, project scale is around 308kW and has completed grid connection. This project is completed under the cooperation between Trina Solar and GPC Europe (Grid Parity Concepts Europe)

210 Vertex
410W Series/ Backsheet
PV Modules

308kW
System Scale

Year 2021
Commercial
Operation Time

Belgium, Europe
Location