



Ground-Mounted PV Station Applications

Location: Brisbane, Australia

Completion Time: Nov, 2018

Product: Solibro

Category: Ground-Mounted PV Station

Installed Capacity: 210.04kW

The project intends to install PV products on the roof and wall facade of APG parking lot in Brisbane, Australia. The installed capacity of this project is about 210.04kw, with 1140 Solibro photovoltaic modules and 388 HanWall Modules. According to local lighting conditions, the average annual power generation is expected to be about 310MWh.

Climatic condition

The latitude and longitude of the user's location in Brisbane, Australia is as follows: S: 27° 46' , E: 153° 02'. Local lighting conditions in Brisbane are shown in the table below.

Monthly Averaged Insolation Incident On A Horizontal Surface (kWh/m²/day)

Lat -27°46' Lon153°02' ''	Jan	Feb	Mar	April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Average
22-year Average	6.99	6.14	5.80	4.89	3.69	3.11	3.45	4.05	5.03	6.07	6.6	6.84	5.24

The annual average peak sunshine hours were 5.24 hours.

System Total Design

This project belongs to the photovoltaic solar grid-connected power generation system, mainly including: PV modules, Inverter, AC junction box, and network box, metering box, load (refrigerator, lighting etc.).

Photovoltaic power generation system design and calculation involves more factors, not only with photovoltaic power station area lighting conditions, geographical location, climatic conditions, air quality, are also associated with electrical power, electricity demand time, also related to the number of rainy days you need to make sure that the power supply, the other is with photovoltaic modules of orientation, obliquity, surface cleanliness, temperature and so on factors.

The total installed capacity of the project is 210.04kW. The time of solar radiation at the peak level of the project in Brisbane is about 5.24 hours per day and 1,912 hours per year, according to this light radiation, the annual output of this project is 310MWh

Location: Greece

Completion Time: Jan. 2013

Product: Apollo

Category: Ground-Mounted PV Station

Installed Capacity: 2000kW

Project Brief: Achaia station is Hanergy's first grid-connected thin film power station in Greece. The power station reduced more than 1510 tons carbon dioxide emission per year, and gain great support and recognition from Greece Investment Bureau and Greece government.



Location: Greece

Completion Time: Jan. 2013

Product: Apollo

Category: Commercial Roof

Installed Capacity: 2000kW

Project Brief: The project is Hanergy's second successful thin film solar power station in Greece after the grid-connection of Solel Achaia station.



Location: Greece

Completion Time: Mar. 2013

Product: Apollo

Category: Ground-Mounted PV Station

Installed Capacity: 1500kW

Project Brief: The project was invested and constructed by Hanergy Europe. The project overcame the difficulties of winter construction and risk of boycott. Completed in two months, it successfully launched just before the Greece high tariff policy.



Location: Netherlands Bergen

Completion Time: Nov. 2016

Product: Solibro

Category: Ground-Mounted PV Station

Installed Capacity: 1200 kW

Project Brief: This project was developed cooperatively by Hanergy Europe team and Sunprojects (Netherlands EPC partner), which was completed in Nov. 2016 and is currently to be grid-connected. Once connected to local grid, it can make the most of open space and solar resources, develop clean energy, reduce the environmental pollution by traditional power, and promote clean energy in the city.



Location: Santa Vitoria do Ameixial, Portugal

Completion Time: Apr. 2016

Product: Solibro-110W

Category: Ground-Mounted PV Station

Installed Capacity: 1200 kW

Project Brief: The project was invested and constructed by Hanergy Europe's client Infracore Group who actively developed solar projects in Portugal and think highly on the quality of Solibro module.



Location: Gainesville, Florida, America

Completion Time: Phase 2-October, 2012 ; Phase 3-Nov, 2013

Product: Miasolé GG

Category: Ground-Mounted PV Station

Installed Capacity: Phase 2-1000kW, Phase 3-1050kW

Project Brief: As Hanergy's 1st large-scale Ground-Mounted PV Station Project in the U.S, the 1MW project which provides long-term stable revenue has been sold to Gainesville GRU with 20 years span Feed-in-Tariff ("FiT"). MHL Phase 2 laid a solid foundation for Hanergy America business development.



Location: Atacama, Chile

Completion Time: Jun, 2014

Product: Miasolé GG

Category: Ground-Mounted PV Station

Installed Capacity: 2200kW

Project Brief: Hanergy America and Chile RTS Co. established good partnership in project development and business expansion. 2.2 MW CIGS Glass Module Ground-Mounted PV Station was grid-connected successfully in Atacama Desert, north of Chile in June 2018. The project provided great exemplary effect for Hanergy CIGS Tech Module in Chile as well as the whole Latin America.

