

Singapore Solar Panel Project

Customer

Terrenus Energy SL2 Pte Ltd

Background

Awarded in January 2020 and completed in November 2021, the SolarLand 2 (SL2) is a state-of-the-art ground-mount photovoltaic (PV) powerplant installed on 116,000 square meters of interim industrial land at Changi Business Park.

SL2 has a total solar capacity of 19.2 MWp with over 35,000 solar panels making this Singapore's largest ground-mounted solar installation.

The site is expected to generate clean electricity to the national grid over the next 20 years, equivalent to powering approximately 3,365 HDB 4-room flats annually.

Project

Ampcontrol was commissioned in the project to design, supply, deliver and install two 22kV 20ft containerised system.

The system was designed and built with natural ventilation, light arrestors, lighting, power and fire alarm systems.

We supplied and installed 22kV GSI switchgear including a battery charger.

We were also responsible for the testing and commissioning of the system including the protection relays.

The Result

The result of the project was the successful commissioning of the largest ground mounted utility-scale solar farm in Singapore. While site works are still ongoing the 22kV system was successfully powered on.

Suitable crops will be planted below the solar arrays through a community urban farming initiative that will run concurrently on-site.



Achievements

Being the first large scale solar project in Singapore, the team had to ensure the design was adequate to handle the supply requirements.

The electrical design of the system is also different from our typical importing of power from the network to exporting back into the system.



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