Project Profile
Gunkul Megasolar Power Plant


Phetchabun, Thailand


Gunkul's project will help the kingdom of Thailand reach its goal of installing 500 MW of solar power eight years ahead of schedule.

Site Overview	
Location	Phetchabun, Thailand
Coordinates	16.4° N, 101.1° E
Average global irradiance	1,797 kWh/m²/yr
Average temperature	27.6 °C • 81.6 °F
Average precipitation	1,179 mm • 46.4 in/yr

Installation Overview	
Scheduled completion	December 2010
System capacity	3.3 MWp (1st phase)
Panel type	SC85-EX-B (85 W)
Number of installed panels	38,688
Tilt angle, orientation	15°, South 0°
CO_2 reduction (estimate)	2,652 tons
Inverter	GT500E

"Choosing Solar Frontier for this project is a reflection of our confidence in the superior performance of CIS modules."

Gunkul Dhumrongpiyawut
CEO
Gunkul Engineering

Thailand-based Gunkul Engineering has seen almost continuous growth since its founding in 1982. It is active not only in Thailand, but in international markets including Laos and Vietnam. Its strong expansion can be attributed to its relations with overseas firms, and its initiatives with new technologies, including solar power.

Following an agreement with the Provincial Electricty Authority (PEA), Gunkul is undertaking a 7.4 megawatt solar power plant project to be constructed in Phetchabun, located in the north of Thailand. The project will be conducted in two phases, with the first phase being a three megawatt installation. Solar Frontier has provided the panels and Schneider Electric will handle the installation.

Solar Frontier's CIS technology has been chosen over other PV types due to their ability to handle the high ambient heat of the region, where the average annual temperature reaches 28 °C (82 °F). The first phase of the project will begin producing electricity within the year and is scheduled for completion by 2010. Gunkul will soon hold an IPO to help raise the necessary funds for the construction of the second stage, and has secured a contract with PEA for the sale of power generated for the next 25 years.

About Solar Frontier
Solar Frontier is committed to creating the world's most ecological, economical solar energy solutions on Earth, on the world's largest scale. Our proprietary CIS technology (denoting key ingredients copper, indium, and selenium) has the best overall potential to set the world's most enduring standard for solar energy. For more information visit www.solar-frontier.com