

SOLAR FARM - SOLARTA Thailand



Project data

Project name:	Sai Yai + Sai Thong
Developer:	Solarta Co. Ltd
Location:	Nakorn Prathom, Thailand
Energy Company:	Provincial Energy Authority of Thailand
Construction time:	28 weeks
Commissioning:	June 2012

Technical data

Rated system power	9.71MWp + 6.15MWp
Annual energy yield	approx. 25'000 MWh
Avoided CO ₂ p.a.	approx. tonnes 13'750
Construction type	Ground mounted, steel structure

No./type of modules	67'000 units SCHOTT Solar
Inverter	16 units SMA SMC800
Tilt angle	12°, facing South

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“We are very satisfied with Phoenix Solar and PESCO. They stood out by taking effective action to protect our investment against damage from the unprecedented floods that overwhelmed Thailand in 2011”

Dr Supot Sumritvanitcha, Managing Director of Yanhee Solar Power Co Ltd.

Unlocking Thailand’s PV potential

Thai developer Solarta Co Ltd contracted Phoenix Solar and local partner, Process Engineering Services Co Ltd (PESCO) with the design, planning and construction of two solar PV power plants: 9.71MWp at Sai Yai and 6.15MWp at Sai Thong.

Solarta is a joint-venture between Yanhee Solar Power Co.Ltd and Ratchaburi Electricity Generating Holding PLC. The companies came together to capitalise on Thailand’s abundant sunshine and favourable policies to develop a portfolio of solar farms.

The team installed 67’000 solar modules from SCHOTT Solar with 16 central inverters from SMA. The two sites cover 19 hectares between them and are designed to generate approximately 25’000MWh of electricity per year. This corresponds to a performance ratio (PR) of over 82%

The solar energy feeds into the Provincial Electricity Authority (PEA) grid under the Very Small Power Producer (VSPP) scheme.

Solarta will benefit from a wholesale tariff, enhanced for the first 10 years by an “adder tariff” of THB8 per kWh. From year 11 onwards, the prevailing wholesale tariff will apply, which is currently around THB3 per kWh.

The Phoenix-PESCO team delivered the ideal combination of high-tech German engineering and technology with local construction and management know-how. This was evident in the smooth plant construction process until completion.

When Thailand suffered the worst floods in its history, Phoenix and PESCO acted decisively to keep the plant and critical equipment dry. As a result, the team successfully minimised delays and avoided cost overruns.

