



SIAM SOLAR ENERGY 1 THAILAND

Powering a sustainable energy future for
Southeast Asia



This renewable energy project in central Thailand bundles 10 solar farms for a total installed capacity of 104.7 MW, delivering 148,477 MWh of clean electricity to the national grid system each year. Innovative solar photovoltaic (PV) technology reduces Thailand's dependence on fossil fuels, improves energy access in rural regions, and boosts local economies.

The Context

Thailand is one of the largest energy consumers in Southeast Asia and the region's second largest oil importer, with fossil fuels currently meeting around 80% of total energy demand. The Thai Government is looking to tackle national dependence on fossil fuels and help pioneer Southeast Asia's renewable energy sector.

The Project

Solar is poised to play a crucial role in Thailand's clean energy transition. The Siam Solar Energy 1 project bundles 10 solar photovoltaic (PV) power plants across Kanchanaburi and Suphanburi Provinces in central Thailand. The solar PV systems are a cutting-edge, environmentally-sound technology with a capacity of approximately 10 MW per plant, and deliver generated electricity to the grid.

The Benefits

This bundled project reduces Thailand's reliance on imported energy and drives both national and regional economic growth. Aside from meeting the energy demands of regional Thai communities, the project improves local infrastructure and provides employment opportunities for local skilled and unskilled workers in manufacturing, installation, operation and maintenance of equipment.

Transforming Thailand's renewable energy landscape with clean solar power

Official Name

PV (Bundle) Siam Solar Energy 1

Commercial Operation Date

July 2013 - June 2014

Total capacity

104.7 MW, 10 installations of approximately 10 MW each

Estimated Annual Electricity Generation

148,477 MWh

Quality Assurance and Verification

- Annual audit provided by third-party auditor

Transparency

- RECs listed in GoldPower Register
- Underpinning carbon credits retired in Gold Standard Market Registry

Reportability

Meets GHG Protocol Scope 2 Guidance criteria



**150,000
MWh**

generated on average annually, providing a clean alternate energy source



**100
jobs**

created at plants, boosting local economies



**10
plants**

operating with innovative solar technology, setting a standard for sustainable development



**79,800
tCO₂e**

mitigated on average annually

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

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