



PRACHIN SOLAR THAILAND

Converting the power of sunlight into
clean energy



Located near to the capital, Bangkok, the project involves the construction and operation of a 5 MW photovoltaic power plant. The solar panels harness energy from sunlight and convert it into clean renewable electricity that is sold to the Provincial Electrical Authority. GHG emissions are reduced, while regional and national economic development is enhanced as jobs are created for the local community and the renewable energy industry is boosted.

The Context

Thailand is looking to buffer against an over-reliance on natural gas for energy generation, which currently accounts for 70% of the national energy mix. This is because national reserves are being depleted and Thailand is having to rely on imports from neighbouring countries, such as Myanmar and Malaysia. Renewable energy sources would help to secure Thailand's energy supply, particularly as economic development and tourism are increasing demand.

The Project

Located in the Prachin Buri Province in the central region of Thailand, the project involves the construction and operation of a 5MW solar power plant. The plant is grid-connected, with the net power being sold to the Provincial Electrical Authority (PEA) under the VSPP regulation with the Feed-in-Tariff scheme.

The Benefits

The project represents an important step in promoting alternative energy consumption in the region. It helps to drive forward Thailand's clean energy capacity, by building the necessary infrastructure, showcasing renewable power as a reliable way to secure the national supply and developing local skills and knowledge. The energy produced by the solar project displaces energy produced by fossil fuels, helping to reduce GHG emissions into the atmosphere and at the same time helping to address growing fears of air pollution across the country.

During the dry season, the sun shines on average 9 hours per day in the Prachin Buri Province, maximising the potential for solar power generation

Commercial Operation Date

30 December 2016

Total capacity

5 MW

Grid

Thai Provincial Electrical Authority

Reportability

Meets GHG Protocol Scope 2 criteria, RE100, CDP

Registry link

<https://registry.irecservices.com/Public/ReportDevices/>

Registry ID

PRACHIN1



**6,700
MWh**

renewable energy delivered to the grid on average per year



**5
jobs created**

through the project, supporting local economic development



**3,800
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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