



Sustainability action · Project Renewable Energy and Energy Efficiency

Foshan Solar Power Plant

Replacing fossil fuels with clean solar power in Southern China

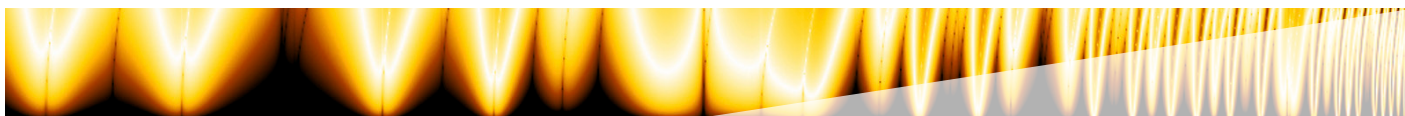
With an installed capacity of 13 MW, the Foshan solar power plant near Hong Kong generates 12,100 MWh of renewable energy yearly using nothing but energy from the sunlight. Until 2020 the plant will reduce carbon dioxide (CO₂) emissions by an estimated 18,700 tCO₂.

Project

Located close to Hong Kong in the neighbouring Guangdong province, the Foshan Solar power plant provides reliable renewable energy to the South China power grid. Guangdong is the province

with the highest GDP of Mainland China and one of the most densely populated regions, leading to a substantial need for power supply. The province imports high quantities of expensive fuel oil and diesel to run additional generation capacity, causing GHG emissions and environmental pollution.

Increasing the solar power generating capacity in the region reduces its dependency on fossil fuels and simultaneously tackles pollution problems. Projects such as the Foshan Solar power plant are fundamental in supporting China's transition to a sustainable energy system.



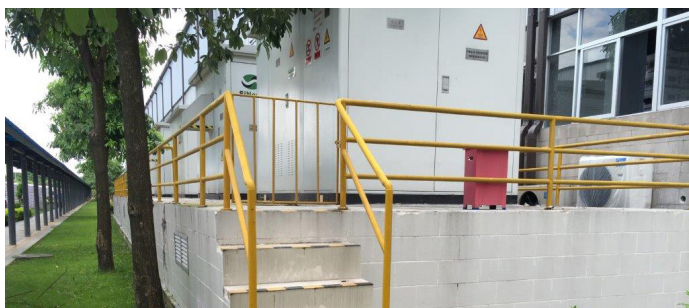
Project achievements

Socio-economic impact

- **Job creation:** The project created local employment opportunities during the planning and construction phases and permanent positions during its operation period, in addition to local business opportunities throughout its lifetime.
- **Energy access:** The project provides sustainable energy and contributes to the optimisation of the power system and contributes to an increased electrification of a densely populated region.
- **The project uses waste land and roofs of nearby enterprises** to mount the polycrystalline silicon cell modules, so that those fragmented waste lands can be effectively used, which also boosts investment.

Environmental impact

- **GHG Reduction:** The project reduces reliance on fossil-fuel based power sources, decreases emissions of SO₂, NO_x, particulate matter (PM) and dust by replacing electricity from thermal power plants, and reduces emissions of CO₂ by supplying renewable energy to the grid.



Checklist Project 301915

Commercial Operation Date

November 2015

Total capacity

13 MW

Estimated Annual Electricity Generation

approx. 12,100 MWh

Quality Assurance and Verification

In accordance to the I-REC Code

Transparency

I-RECs listed in I-REC Registry (<https://registry.irecservices.com/Public/Home/>)

Marketing material

Pictures available

Reportability

Meets GHG Protocol Scope 2 Guidance criteria

I-RECs Standard



I-RECs reportable under



<http://thesouthpolegroup.com/sustainability-solutions/renewable-energy>

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