



Sustainability action · Project Renewable Energy and Energy Efficiency

Haining Solar Power Plant, China

Powering Eastern China with clean solar power

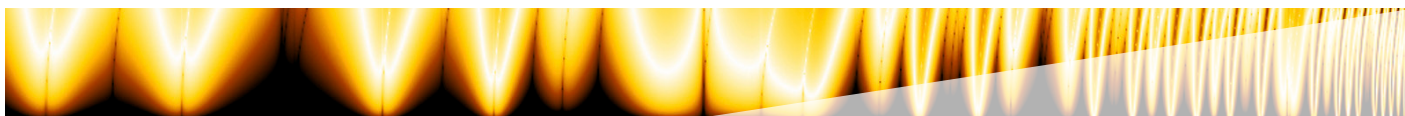
The Haining Solar power plant near Shanghai has an installed capacity of 50 MW and generates 51,240 MWh of clean renewable energy yearly using nothing but energy from the sunlight. The plant will reduce carbon dioxide (CO₂) emissions by 70,000 tCO₂e until 2020.

Project

Located close to Shanghai in the neighbouring Zhejiang province, the Haining Solar power plant provides reliable renewable energy to the East China power grid. East China is amongst the most densely

populated regions of the country, resulting in a rapidly growing energy demand. The Chinese power sector is expanding massively with a focus on coal-fired power plants, causing substantial GHG emissions and environmental pollution.

However, China also aims to increase its solar power generating capacity in order to reduce its energy intensity and simultaneously tackle pollution problems. Projects such as the Haining 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 phase 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 301916

Commercial Operation Date

December 2015

Total capacity

50 MW

Estimated Annual Electricity Generation

approx. 51,240 MWh

Quality Assurance and Verification

In accordance with 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>

Natalia Gorina
Sales Director Carbon & Renewables

Phone +41 43 501 35 50
sales@thesouthpolegroup.com