



Sustainability action · Project Renewable Energy and Energy Efficiency

Lianyungang Solar Power Plant

Clean solar energy for the Shanghai region

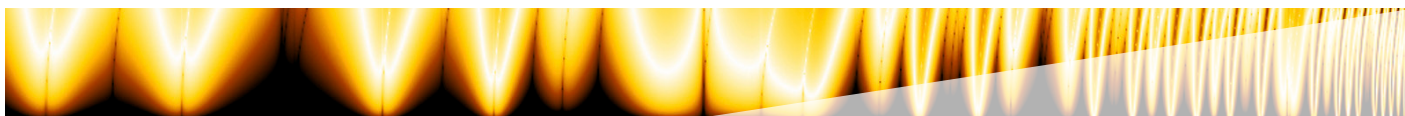
The Lianyungang Solar power plant has an installed capacity of 98 MW and generates 117,388 MWh of clean renewable energy yearly using nothing but energy from the sunlight. Until 2020 the plant will avoid carbon dioxide (CO₂) emissions of up to 234,760 tCO₂.

Project

Located close to Shanghai in the neighbouring Jiangsu province in Eastern China, the Lianyungang Solar power plant provides clean renewable energy to the East China power grid. The Jiangsu province is among the five most populated provinces in the country

with an equivalent of the population of Germany. Due to population growth and the economic development, electricity demand in the region is rapidly increasing. China relies heavily on fossil fuels and is a major driver of global carbon emissions, resulting in severe environmental problems such as heavy air pollution.

As solar resources and large wasteland are widely available in China, solar power has the potential to become a cost-effective and clean alternative for China's future electricity supply. Projects such as the Lianyungang Solar Power Plant are fundamental in supporting this 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 301917

Commercial Operation Date

December 2015

Total capacity

98.80 MW

Estimated Annual Electricity Generation

approx. 117,388 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>

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