



10MW Siwa Solar PV Plant, Egypt

Masdar's 10-megawatt (MW) solar photovoltaic (PV) power plant in Siwa was the largest solar power installation in Egypt at the time of its completion in March 2015. The project is the first utility-scale solar power installation in the country and accounts for 30 per cent of the grid capacity of Siwa City and its adjoining areas.

This solar installation produces 17,551MWh of clean electricity annually and displaces approximately 14,000 tons of carbon dioxide per year. The plant consists of 74,640 micromorph thin-film panels and supplies clean, safe and secure electricity to more than 6,000 homes. The project is part of a UAE-funded grant programme for rural electrification in Egypt, which will include solar energy solutions to electrify 264 villages and rural communities currently lacking reliable access to electricity and cut off from the national grid.

Masdar carried out the project on behalf of the Government of Abu Dhabi. The project was initiated by Masdar in cooperation with the New and Renewable Energy Authority of Egypt (NREA) in March 2014 with the sponsorship of the UAE Egypt Taskforce, and was fully commissioned in March 2015.

The solar power plant is operated by Al Behira Electrical Distribution Company, which is owned by the state utility Egyptian Electricity Holding Company.

Quick Facts

- + Located in Siwa, Egypt.
- + First utility scale and largest solar PV plant in Egypt when connected to the grid in March 2015.
- + The 10 MW solar plant produces about 17,500MWh per year.
- + Supplies electricity to nearly 6,000 homes and accounts for 30 per cent of the power demand in Siwa City and outskirts.
- + Land area: 175,000 square meters.
- + Displaces approximately 14,000 tons of carbon dioxide annually.

