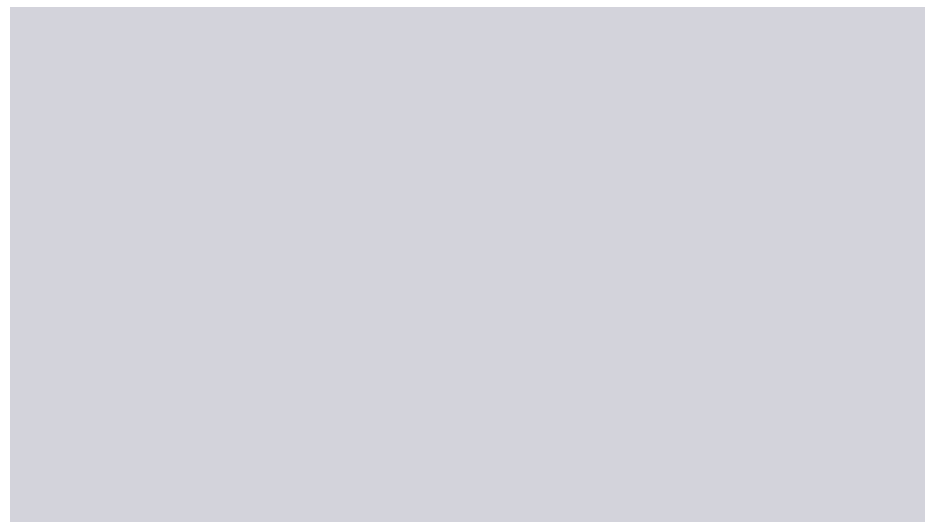


Market Data

Khi Solar One Power Plant – Molten Salt Thermal Energy Storage System, South Africa

August 30, 2021

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The Khi Solar One Power Plant – Molten Salt Thermal Energy Storage System is a 50,000kW energy storage project located in Upington, Northern Cape, South Africa.

The thermal energy storage project uses molten salt as its storage technology. The project was commissioned in 2016.

Description

The Khi Solar One Power Plant – Molten Salt Thermal Energy Storage System is owned by Industrial Development Corp of and Abengoa Solar South Africa (51%).

The key applications of the project are renewables energy time shift and renewables capacity firming.

Contractors involved

Abengoa Solar South Africa and Industrial Development Corp of have delivered the project.

Additional information

Khi Solar One is a 50 MW concentrated solar power plant with a power tower.

The power station will include a facility to store steam, enabling it to generate electricity for two hours when the sun is not shining.

Khi Solar One will use dry cooling, which dramatically reduces water consumption by two thirds.

Methodology

All publicly-announced energy storage projects included in this analysis are drawn from GlobalData's Power IC. The information regarding the projects are sourced through secondary information sources such as country specific power players, company news and reports, statistical organisations, regulatory body, government planning reports and their publications and is further validated through primary from various stakeholders such as power utility companies, consultants, energy associations of respective countries, government bodies and professionals from leading players in the power sector.

