
High-efficiency photovoltaic containers used in cement plants in Saudi Arabia

Which cement plant is used for solar thermal application?

Location and DNI availability of the investigated plant A conventional cement plant (Kotputli Cement Works(KCW),an UltraTech Cement Limited manufacturing unit) at Kotputli,Jaipur,Rajasthan,was investigated for solar thermal application.

Can a solar power system save CO₂ in cement industry?

Concentrated solar power system is designed for cement industry. Substitution of required thermal energy ranging from 100% to 50% is studied. 7600 heliostats with 570 ha land required for 50% conventional energy replacement with solar energy. Selected conventional cement plant could save 419 thousand tons of CO₂ annually.

Can solar energy be used in cement manufacturing?

Gonzalez and Flamant (2013) designed a hybrid model that uses solar and fossil fuel energy to fulfill the thermal energy requirement for cement manufacturing. Concentrated solar thermal (CST) is a potential replacement for 40%-100% of the thermal energy needed in a conventional cement plant.

How a solar cement plant is designed?

Solar cement plant was designed based on cement production and the Direct Normal Irradiation (DNI) data available at plant location. Total thermal energy and the amount of land needed for the solar cement factory were analysed. Additionally, total mirror surface, number of heliostats, and land requirement are estimated.

An innovative and efficient solar power plant solution has been developed for cement factories. On an annual basis, solar PV systems in cement plants may save 22,941 tonnes of CO₂.

ENGIE is a global leader in low-carbon energy solutions, operating across multiple continents and energy sectors. Al Jouf Cement ...

French utility group Engie SA (EPA:ENGI) has entered into a power purchase agreement (PPA) with Al Jouf Cement Company (TADAWUL:3091), or AJCC, to develop a 22 ...

France-headquartered ENGIE signed a PPA with Al Jouf Cement Company to develop a 22 MW solar PV plant at its Turaif facility ...

Carbon Reduction: The project will cut emissions by 1,481,100 tons, boosting sustainability in the energy-intensive cement industry. ...

This project supports Al Jouf Cement's commitment to sustainability and contributes to Saudi Arabia's broader environmental objectives. ENGIE's turnkey approach to ...

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