
Waterproof Solar Container for Cement Plants

Can solar clinker be used for cement production?

For the first time ever, CEMEX and Synhelion successfully connected the clinker production process with the Synhelion solar receiver, producing solar clinker. This revolutionary innovation is an initial step to develop fully solar-driven cement plants.

Can solar energy be used in cement production?

In literature, few studies have found that integrated solar energy with the cement industry for fulfilling the thermal energy requirement for various processes during cement production (Imhof, 2000; Meier et al., 2005; Gonzalez and Flamant, 2014; Moumin et al., 2020).

What is a solar clinker?

This revolutionary innovation is an initial step to develop fully solar-driven cement plants. CEMEX, S.A.B. de C.V. ("CEMEX") and Synhelion announced today the successful production of the world's first solar clinker, the key component of cement, a significant step towards developing fully solar-driven cement plants.

Can solar energy be used for calcination process in cement production?

Concentrated solar energy is used for the calcination process in cement production. Annual cement production and solar irradiation for each location of the cement plant have been identified. Total thermal energy that could be saved is estimated as 133.36 PJ/annum. CO₂ mitigation is estimated as 7413.73 thousand tonnes per annum.

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.

Solar Energy has undoubtedly emerged as a powerful and eco-friendly source of electricity making it suitable for various industrial applications. The cement production sector, ...

This is where the CemSol project comes in, short for "solar production of cement with integrated CO₂ capture". The team of ...

This study describes the potential of solar thermal calciner technology and consequent carbon mitigation for Indian cement industries. Approach used to provide solar ...

Synhelion's solar tower technology harnesses energy from a field of solar mirrors and concentrates it onto a receiver. The receiver ...

Choose our solar solution for cement factory and reduce your operational costs. Contact us and experience a modern and hassle-free way of solar system installation.

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Synhelion's solar tower technology harnesses energy from a field of solar mirrors and concentrates it onto a receiver. The receiver converts the solar radiation into high ...

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