
30kW Solar Container Used in 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.

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.

How clinker can be produced from concentrated solar radiation?

The Synhelion and CEMEX R&D teams set up a pilot batch production unit to produce clinker from concentrated solar radiation by connecting the clinker production process with the Synhelion solar receiver. The pilot was installed at the Very High Concentration Solar Tower of IMDEA Energy, located in Spain.

Will Cemex deliver net-zero CO2 concrete by 2050?

It is proof of our commitment to deliver tangible outcomes through innovation to achieve our goal of delivering only net-zero CO₂ concrete by 2050," said Fernando A. Gonzalez, CEO of CEMEX. "CEMEX is building a better future, and that future must be sustainable."

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.

When integrated into the energy supply for cement plants, solar power significantly minimizes the use of fossil fuels, which are finite resources and major contributors to ...

Emergency backup power: Showcase the usefulness of solar containers during power outages, particularly in critical facilities like ...

Abstract This work describes the implementation of concentrated solar energy for the calcination process in cement production. Approach used for providing solar energy ...

For a 30kW Solar Plant about 87 qty of poly solar panels of 345wp would be required or 60 qty of mon-perc solar panels of 500wp. For poly, Vikram / Renewsys Solar are reputable Indian ...

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.

Advancing from that stage to production under plant-like and continuous conditions reaffirms the tremendous potential of this technology to reach industrial-scale implementation. ...

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

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