

BLINK SOLAR

Solar-powered mobile containerized cement plant



Overview

This work describes the implementation of concentrated solar energy for the calcination process in cement production. Approach used for providing solar energy includes the utilisation of a solar tower sy.

Will Cemex & synhelion develop fully solar-driven cement production?

Cemex and Synhelion have made significant progress in their joint effort to develop fully solar-driven cement production. They have scaled their technology to industrially-viable levels, enabling the continuous production of clinker, the most energy-intensive part of cement manufacturing, using only solar heat.

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.

Will Cemex & synhelion build a pilot cement plant?

Cemex and Synhelion will now take further steps toward constructing a pilot cement plant powered by solar energy. Fernando A. González, CEO of Cemex, stated, "I am convinced we are getting closer to the technologies that will enable net-zero CO₂ cement and concrete production.

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.

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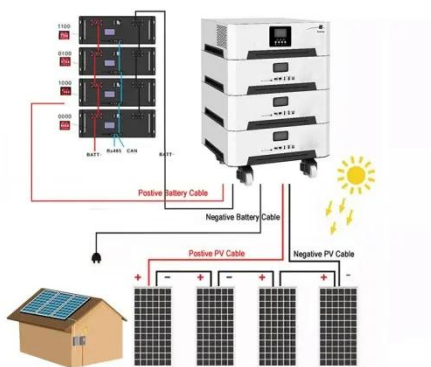


Producing cement with solar energy

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 ...

Cemex and Synhelion shed light on fully Solar-powered Cement Plant

Cemex and Synhelion shed light on fully Solar-powered Cement Plant Technology. Cemex and Synhelion announced today a significant milestone in their joint Cemex and ...



CEMEX and Synhelion achieve breakthrough in cement ...

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 ...

Cemex and Synhelion Move Closer to Solar-Powered Cement Plant

Cemex and Synhelion are on their way toward achieving a fully solar-powered cement production with the latest scaling of their technology to industrially-viable levels. ...



Design of solar cement plant for supplying thermal energy in cement

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

Cemex and Synhelion advancing with first fully solar-powered cement plant

Cemex and Synhelion have achieved a significant milestone in their joint endeavor to develop a fully solar-driven cement production process ..To read the rest of this article, please ...



Design of solar cement plant for supplying thermal energy in cement



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Cement Industry Solar Update - Cement Optimized

This marks a significant milestone in the companies' journey toward the world's first fully solar-powered cement plant. An early 2022 energy lab demonstration in Spain saw ...



Synhelion and CEMEX make further progress toward the ...

Synhelion and Cemex will now take further steps toward building a solar-driven industrial-scale pilot cement plant. "I am convinced we are getting closer to the technologies ...

Cemex and Synhelion make further progress toward the ...

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to develop fully solar-driven cement production: the scaling of their technology to industrially ...



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