A 150-foot solar-powered container used by a cement plant in Slovenia

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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.

How calcined meal is used in a solar cement plant?
Solar cement plant operation during the day with a solar multiple (SM) > 1. Once more, the storage or conventional calciner makes up the difference between the generated calcined material and the design point. After the solar reactor achieves its optimum value, the calcined meal is immediately provided for the subsequent process.

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 a conventional cement plant be used for solar thermal applications?
A conventional cement plant (Kotputli Cement Works (KCW),an UltraTech Cement Limited manufacturing unit) at Kotputli,Jaipur,Rajasthan,was investigated for solar thermal application. According to Indian Minerals Yearbook 2020,the plant produced 2.37 million tons,while the production capacity of the plant is 4 million tons.

Cemex and Synhelion report prospective scaling of a high-temperature process to industrially-viable levels, where solar energy ...

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 ...

This project aims to study conditions to maximize heat transfer to the raw cement mix, further advancing the cause of solar-powered cement ...

CEMEX and Synhelion announced today the successful production of the world"s first solar clinker, the key component of cement, ...

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In the present work, the authors have attempted to design a solar cement plant for supplying solar energy to the cement industry. A case study was done, which investigated a ...

The two companies unveiled the first-ever successful production of solar clinker in a small-scale batch process pilot at the beginning of 2022. Clinker, the most energy-intensive ...

Synhelion and Cemex will now take further steps toward building a solar-driven industrial-scale pilot cement plant. "I am convinced ...

Cemex and Synhelion report prospective scaling of a high-temperature process to industrially-viable levels, where solar energy supplants fossil fuel combustion. This marks a ...

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.

Cemex and Synhelion will now take further steps toward building a solar-driven industrial-scale pilot cement plant.

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