Scalable Solar-Powered Containers 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.

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.

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.

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.

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 ...

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

Concentrating Solar Power for Cement Decarbonization Solar-Thermal Mixed-Media Enhancement and Decarbonization of Clinker Formation (Solar MEAD)

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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.

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Cemex and Synhelion announced today a significant milestone in their joint effort to develop fully solar-driven cement production: the scaling of their technology to industrially ...

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