



Collaboration on a 15MWh Solar Container for a Cement Plant





Overview

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.

Is this the first step to develop fully solar-driven cement plants?

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 build a pilot cement plant?

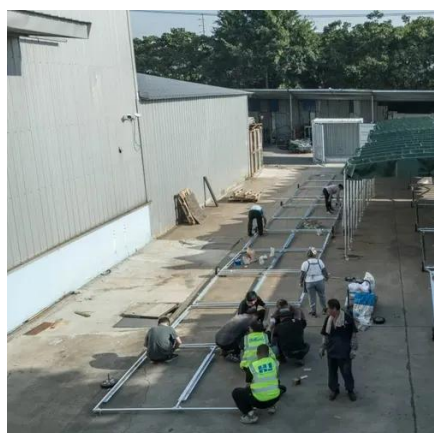
Cemex and Synhelion will now take further steps toward constructing a pilot cement plant powered by solar energy. Fernando A. González, CEO of Cemex, stated, "I am convinced we are getting closer to the technologies that will enable net-zero CO₂ cement and concrete production.

How to produce clinker 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.



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[Verbund installs 15-MW solar park for cement ...](#)

In the future, self-generated solar energy will cover around 15% of the needs of Holcim's cement plant in Mannersdorf. The ...

Cemex and Synhelion Move Closer to Solar-Powered Cement Plant

"The solid progress I see here proves that solar cement is not just a dream; it is achievable through continued collaboration and backed up by rigorous research and testing." ...

Support Customized Product



Holcim's Austrian cement plant goes solar with 15-MW installation ...

Environment Holcim's Austrian cement plant goes solar with 15-MW installation 23 October, 2025

[Synhelion starts building solar tower for cement production](#)

Switzerland-based Synhelion and Mexican construction materials supplier Cemex have started building a high-concentration solar tower designed to produce synthetic fuels for ...



[Verbund installs 15-MW solar park for cement maker Holcim](#)

In the future, self-generated solar energy will cover around 15% of the needs of Holcim's cement plant in Mannersdorf. The collaboration with Verbund is a key building block ...

Cemex and Synhelion Join Hands for the First Solar-Powered Cement Plant

Now, having successfully demonstrated the viability of the technology under continuous and plant-like conditions, Cemex and Synhelion are poised to move forward with ...



Cemex and Synhelion make further progress toward the world's ...

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 ...



[Cemex and Synhelion make further progress](#)



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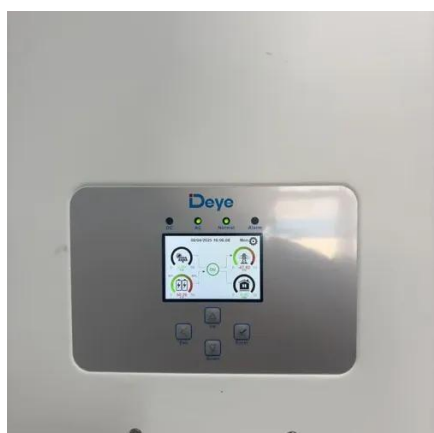
Design of solar cement plant for supplying thermal energy in cement

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 ...



[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 that will enable ...



Cemex Ventures



For the first time ever, CEMEX and Synhelion successfully connected the clinker production process with the Synhelion solar receiver, producing solar clinker. This ...



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