

KREATYWNY ENERGY POLSKA

Solar-powered mobile cabine cement plant



Overview

Now Synhelion and CEMEX engineers have built a pilot plant, on the Very High Concentration Solar Tower of IMDEA Energy in Spain to produce zero CO₂ cement, by substituting direct solar heat for fossil fired heat in one of the world's most carbon-intensive industries. Close-up of Synhelion's receiver delivering the high-temperature solar process heat beyond 1,500°C. Monterrey, Mexico and Zurich, Switzerland. An early 2022 energy lab demonstration in Spain saw researchers leverage Synhelion devices and fuel conversion methods to successfully produce clinker solely from solar power. This includes the continuous production of clinker, the most energy-intensive part of cement. Cemex, a global construction materials company, and Synhelion, a leader in carbon-neutral solar fuels, have announced a groundbreaking advancement in their collaborative pursuit of solar-powered cement production.

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APPLICATION SCENARIOS



CEMEX and Synhelion ace the First "Hot Solar" Cement Trial

Now Synhelion and CEMEX engineers have built a pilot plant, on the Very High Concentration Solar Tower of IMDEA Energy in Spain to produce zero CO2 cement, by substituting ...

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 the development of

...



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.



Cement Industry Solar Update - Cement Optimized

Cemex and Synhelion 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 ...



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Pioneering Solar-Powered Cement Production

Two construction companies, Synhelion and Cemex, have embarked on a groundbreaking collaboration to revolutionize cement production by harnessing the sun's power, one of the most energy-intensive ...



Cemex Closer to Launching 'World's First' Fully Solar-Powered Cement Plant

Cemex and Synhelion announced today

a milestone in their joint effort to develop fully solar-driven cement production: the scaling of their technology to industrially viable levels.



CEMEX and Synhelion achieve breakthrough in cement production

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



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