
1MW Solar Containerized Cement Plant

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.

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.

Will Cemex deliver net-zero CO₂ concrete by 2050?

It is proof of our commitment to deliver tangible outcomes through innovation to achieve our goal of delivering only net-zero CO₂ concrete by 2050," said Fernando A. Gonzalez, CEO of CEMEX. "CEMEX is building a better future, and that future must be sustainable."

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 ...

Fuel substitution is an important measure for heat substitution and carbon emissions reduction in cement production by using low-carbon fuels such as solid waste, natural gas, ...

CEMEX and Synhelion have announced a significant milestone to develop fully solar-driven cement production by scaling their technology to industrially-viable levels. This ...

Advancing from that stage to production under plant-like and continuous conditions reaffirms the tremendous potential of this technology to reach industrial-scale implementation. ...

This is where the CemSol project comes in, short for "solar production of cement

with integrated CO 2 capture". The team of scientists is developing a process in which the ...

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

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 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 ...

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

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