

Industrial plant cement leg photovoltaic support

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.

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.

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.

Can solar energy be used in cement production?

Recently the use of solar energy in cement production has drawn significant research and scientific interest. Licht et al. (2012) developed a method for cement production, which results into near zero CO₂ emissions.

How much electrical power can a cement plant generate?

The results agree with the 13 % thermal efficiency of the ORC reported by Ustaoglu et al. (2017). For comparison, the results available from a German cement plant indicate that 1.1 MW of electrical power can be generated from the waste heat output of exhaust air of 14 MW and temperature of 300 °C (Schorcht et al., 2013).

Can clinker concrete be made without fossil fuels?

Ambrosetti said that the facility will provide enough heat to produce "clinker" concrete without using fossil fuels. "Clinker is produced in a rotary kiln at temperatures nearing 1,500 °C. Fossil fuels are typically used to heat the kiln and are responsible for approximately 40% of direct CO₂ emissions," the company claims.

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