



Solar Power Generation Clinker Network

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All the intellectual property related to the clinker chemistry and clinker manufacturing process as a result of the application of high temperature CST is and will belong to Cemex.

In 2020 partnered with CEMEX to develop an innovative solar-driven technology that aims to eliminate fossil fuels and the carbon footprint in the clinker manufacturing process.

Concentrating Solar Power for Heat Current Receivers/Heat Transfer Fluids Current heliostat/tower systems can achieve flux levels of ~3000 suns and temperatures of ~2500 °C

The Synhelion and Cemex R& D teams set up a pilot batch-production unit to produce clinker from concentrated solar radiation by connecting the ...

The aim of this work was to demonstrate the feasibility of producing Portland cement clinker upon direct exposure of the raw materials under concentrated solar radiation using the PSA high concentration ...

The successful use of concentrated solar power for continuous clinker production validates a scalable, zero-emission heat pathway for the entire cement industry.

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

By integrating this advanced software, our solar tracking system project enables digital management and intelligent operation and maintenance, typically ...

The results underscore the critical role of local solar energy characteristics in influencing the costs, whilst emphasising the necessity for future cost reduction in renewables-based decarbonisation for clinker ...

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