Solar Power Generation Clinker Network

In this study, a technology that uses concentrated solar energy to directly drive solar cement clinker production is proposed and its feasibility is experimental demonstrated.

The company was recently awarded the Net-Zero Industries Award at COP29 for this groundbreaking technology, which uses concentrated solar power to produce clinker, the main ...

This is the first successful calcination and clinkerization achieved using solar energy, the companies say. The clinker was used to make cement and was processed further to make concrete. Using solar ...

Over ten years of experience in the design, modelling, engineering, and experimental testing of high-temperature solar receivers and the optical alignment, characterization, and operation of solar ...

Solar clinker production involves using solar energy to heat limestone and other raw materials to high temperatures, producing a clinker that can be used as a cement substitute. This process is more ...

Cemex was awarded the Net-Zero Industries Award by Mission Innovation at a ceremony during COP29 in Baku, Azerbaijan for its revolutionary clinker decarbonization process ...

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.

In 2023, the companies scaled the technology to industrially-viable levels, enabling continuous clinker production - the most energy-intensive step in cement manufacturing - using only ...

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