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Title: Corrosion-resistant solar-powered containers for cement plants

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A characterization of the thermal and mechanical properties including compression resistance, density, thermal conductivity and chemical degradation were evaluated in a pilot plant ...

This project creates a path to low-cost thermal energy storage by using castable cements instead of metals to build tanks and piping in CSP plants. Cements perform better than nickel alloys and other ...

In the CemSol research project, a team of scientists is developing and demonstrating a solar-heated calcination plant to produce cement. This ...

By using castable cements, exposed metal surfaces could potentially be repaired and CSP plant downtime minimized. This approach is similar to that used by the metal-production industry to protect ...

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.

In this project, our goal is to demonstrate that castable cements can be used to make flanged pipe sections. This will offer a lower cost alternative to nickel alloys such as Haynes 230, to form a ...

Go big with our modular design for easy additional solar power capacity. Customize your container according to various configurations, power outputs, and storage capacity according to your needs.

Even relatively new designs such as floating solar plants or agro-photovoltaic systems, where solar plants are installed on agricultural land, have particularly high requirements for corrosion resistance.

TANKRETE project, developed by InCrescendo, is aimed at tackling this problem while contributing to increase the CSP profitability. TANKRETE is a cylindrical tank with an isolating ...



# Corrosion-resistant solar-powered containers for cement plants

CST ensures that Vitrium™ TiO<sub>2</sub> and Edgecoat II™ technology is utilized on every glass-fused-to-steel tank for maximum corrosion resistance ...

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