



IMK CONTAINERS

Long-lasting photovoltaic container used in Indian cement plants





Overview

This study describes the potential of solar thermal calciner technology and consequent carbon mitigation for Indian cement industries. Approach used to provide solar energy involves the installation of.

How do cement plants use solar energy?

Cement plants would harness solar energy by using solar reactors. The reactor concentrates the solar energy to provide heat and depending on the reactor's location, it is possible to obtain two different solarisation designs for the calcination step (Meier et al., 2005; González and Flamant, 2014; Meier et al., 2006).

Which cement plant is used for solar thermal application?

Location and DNI availability of the investigated plant A conventional cement plant (Kotputli Cement Works (KCW), an UltraTech Cement Limited manufacturing unit) at Kotputli, Jaipur, Rajasthan, was investigated for solar thermal application.

Can a solar cement plant run continuously?

There is no way that a solar cement plant can run continuously throughout the whole solar day. Therefore, several assumptions/constraints and modifications are considered and included in this model. The model is considered a solar calciner, constructed and tested at the German Aerospace Centre (DLR).

Can solar energy be used in cement manufacturing?

Gonzalez and Flamant (2013) designed a hybrid model that uses solar and fossil fuel energy to fulfill the thermal energy requirement for cement manufacturing. Concentrated solar thermal (CST) is a potential replacement for 40%-100% of the thermal energy needed in a conventional cement plant.



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The process takes place in a reactor, the calciner. In most cement plants currently in operation, the extracted CO2 escapes into the atmosphere. The entire process of cement ...

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