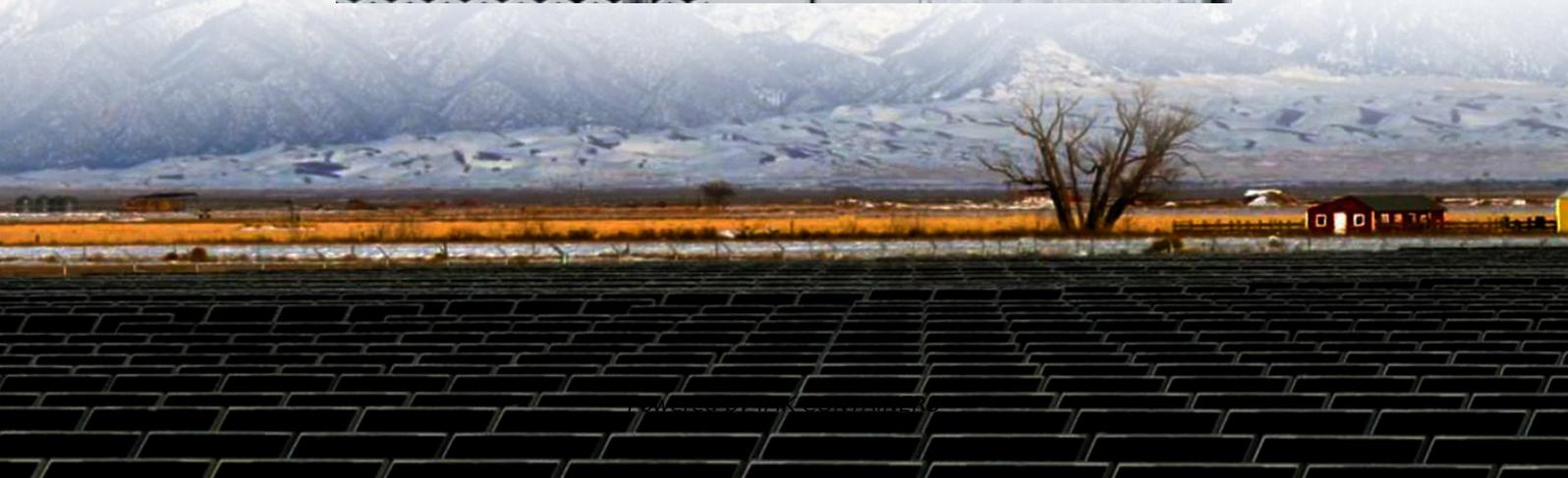


# Payment Method for 40-foot Solar-Powered Containers Used in Cement Plants





## Overview

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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.

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 for calcination of cement?

This study shows that it is feasible to implement concentrated solar energy for the calcination process of cement production. Solar resource for the chosen plant location permits operation for an average of 12 h per day. 9 h of these 12 h are useable, with the remaining 3 h being utilized to heat up and cool down the solar reactor.

How calcined meal is used in a solar cement plant?

Solar cement plant operation during the day with a solar multiple (SM)  $> 1$ . Once more, the storage or conventional calciner makes up the difference between the generated calcined material and the design point. After the solar reactor achieves its optimum value, the calcined meal is immediately provided for the subsequent process.



## Payment Method for 40-foot Solar-Powered Containers Used in Cement



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Specifically, the researchers are planning a so-called lime cycle. This involves an initial endothermic (energy-consuming) process in which cement raw meal, which consists ...

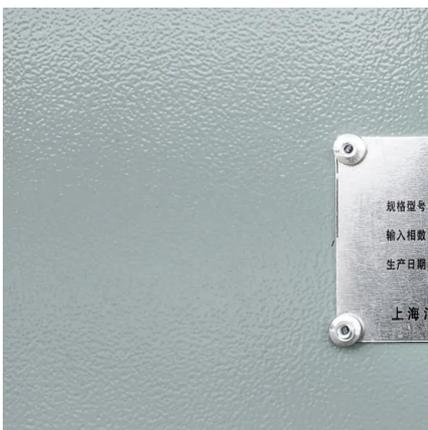
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### **Design of solar cement plant for supplying thermal energy in cement**

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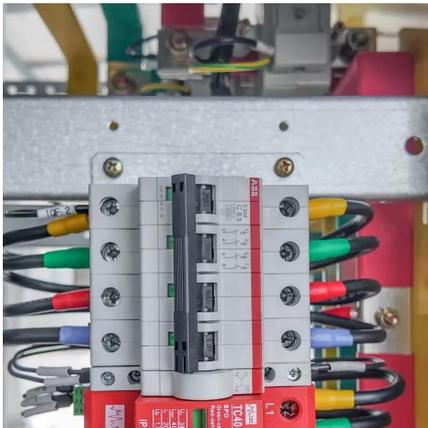
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