

15kW Photovoltaic Container Used in Oman Cement Plant





Overview

Is solar energy a viable option in Oman?

Solar energy is a viable option in Oman given the vast unused land and available solar energy resources. It could not only cater to the growing need for energy diversification but also help in economic diversification in Oman.

Will solar power be deployed in Dakhiliyah Governorate?

According to Oman's National Energy Strategy 2040, a solar energy project in Dakhiliyah Governorate with a plant capacity of 200MW is likely to deploy both concentrated solar power and photovoltaic technologies.

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).



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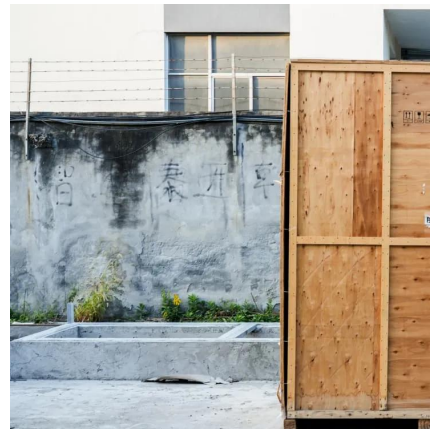
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