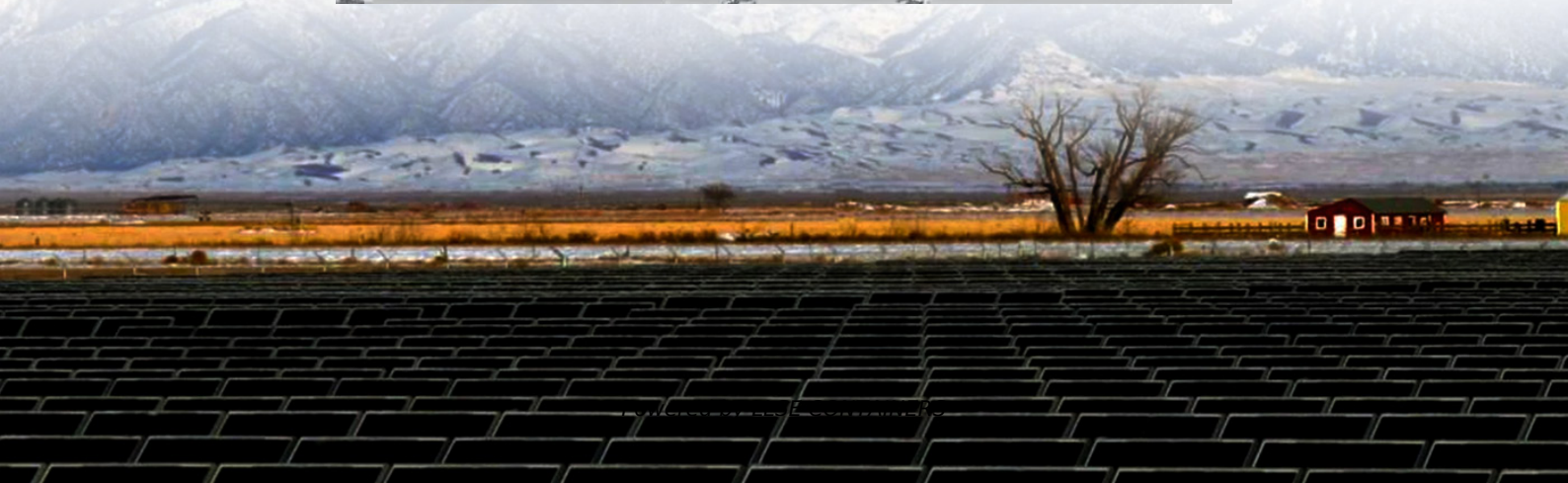


Price of greenhouse solar energy collection nano container





Overview

Is land cost considered for installation of solar systems & greenhouses?

The land cost is not considered for the installation of systems and greenhouses. The CuO nanofluid concentration is 0.001 vol.%. Average solar irradiance and ambient temperature are 600 W/m² and 313 K, respectively. The lifetime of the project is 25 years. The inverters will be replaced after a period of 12.5 years.

Do Nanofluid based solar collectors reduce water cost?

The nanofluid based solar collectors coupled with multi-stage flash (MSF) desalination unit improved the productivity of fresh water, which resulted in decrease of water cost (Kabeel and El-Said, 2014).

How many greenhouses are in a greenhouse complex?

The economic analysis in this study is made for a greenhouse complex, which consists of 50 greenhouses, while each greenhouse has a dimension of 12 m × 2 m × 2.4 m. The area considered for crop production covers 80% of the total greenhouse area.

4.2. Comparison of overall energy consumption.

Can spectrum selective nanofluid reduce the life cycle cost of greenhouse systems?

The comparison is made between four systems based on the life cycle cost of systems. The application of proposed spectrum selective nanofluid was capable of reducing cooling load inside the greenhouse, which decreased the life cycle cost of System-2 and System-4.



Price of greenhouse solar energy collection nano container



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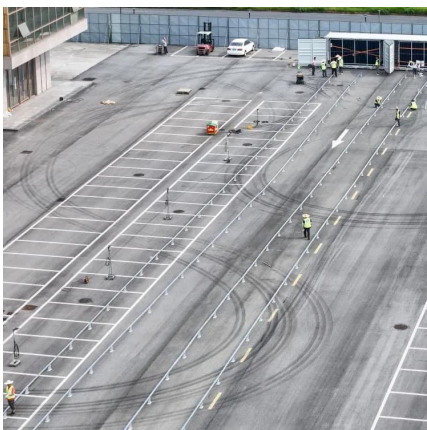
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