

Can solar-powered cold storage system be used for horticultural crops?

Solar-powered cold storage system for horticultural crops. (eds). . doi: 10.1007/978-981-10-5798-4\_12. , et al. . Performance evaluation of hybrid cold storage using solar & exhaust heat of biomass gasifier for rural development. A review about phase change material cold storage system applied to solar powered air conditioning system. EW.

What is solar-powered cold storage system?

In the proposed PCM-based solar-powered cold storage system, solar energy runs the cold storage system as well as charging the PCM during the daytime. The charged PCM maintains the temperature of the cold room during nighttime or in the absence of solar energy.

What is the market potential for solar-powered cold-storage units?

Therefore, the market potential for solar-powered cold-storage units, centralized or decentralized, is enormous. This is because solar energy has enormous potential, as does the need to reduce post-harvest losses, the need for cooling to extend product shelf life and the type of cooling system to be used.

Are solar-powered cold-storage systems a viable alternative to grid electricity?

Regular electricity is needed to operate cold-storage facilities; however, grid electricity in rural locations is frequently unstable. A solution is provided by solar-powered cold-storage systems; however, due to the high initial cost, farmers have not embraced these systems widely.

How can solar-powered cold storage improve rural livelihoods in Nigeria?

In 2020-2021, we implemented an intervention to rebuild rural livelihoods in conflict-affected northeast Nigeria by building solar-powered cold storage facilities that can reduce food loss and increase consumption of perishable, micronutrient-rich horticulture products; increase incomes of market agents and producers; and improve employment.

Why are solar-powered cold-storage systems becoming more popular in the Middle East?

Similarly, high production and import of agricultural products in the Middle East and Africa are made possible by water-efficient irrigation systems and increasing food demand, which can be attributed to the rising demand for the global solar-powered cold-storage market.

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