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APPLICATION OF SOLAR ENERGY IN AGRICULTURE: AN OVERVIEW

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ABSTRACT

Climate change is that the pressing concern of the twenty first century. With continuous rising world temperature, it's very important for every and each sector to consider quantity|the quantity} of greenhouse gases they emit and also the amount of fossil fuels they consume. Hotter temperatures area unit inflicting disturbance like drought, floods and early frost. With such rising considerations, alternative energy is proving to be a boom to grouping. every and each sector is making an attempt to adopt this renewable type of energy. Agriculture is one such sector, which may profit vastly thanks to the adoption of alternative energy. With the rising world population, the demand for agricultural merchandise is increasing at Associate in Nursing exponential rate.



KEY WORDS: agriculture , drying technique , greenhouse.

INTRODUCTION :

A major proportion of agriculture turn out is spoilt throughout the standard alfresco drying. exploitation star drying technique will dry crops quicker and at a good rate than feat them out open within the field with the else advantage of protection from birds, insects and worms. Easily destructible crops square measure typically tough to dry and most of the share finishes up obtaining spoiled, with star drying, you'll simply dry these crops and alter longer storage times and easier transportation. this can considerably decrease the quantity of spoiled crops and contribute to increasing farmer's financial gain. There square measure differing types of star dryers, like direct drying (solar box dryer), indirect drying (solar cupboard dryer), mixed mode drying (solar tunnel dryer) or hybrid drying (hybrid solar/biomass cupboard dryer). Typically, a star drying equipment consists of a shed, a drying rack and a solar furnace.[1-4] The shed traps the star heat coming back from the south-facing window and natural convection or a star fan propels the warmth. If our farm already contains a crop drier in situ it is sensible to switch the traditional fuel powering the equipment with alternative energy. we'd be able to save fuel and cash by this technique.

EFFECTIVE USAGE OF GREENHOUSE HEATING

Greenhouses usually use alternative energy to hold out their prescribed operate. however it must be regulated with gas and oil to take care of a relentless temperature. There square measure many ways you'll adopt to extend the potency of your greenhouse however employing a conductor is often opted by farmers. The easiest and opted out technique to manage the temperature within your greenhouse is to use a thermal

mass known as conductor. A thermal mass is any material that absorbs energy and stores it for later use. One such example is water. solar heat cornered in water are often accustomed regulate the temperature.

USING STAR PHOTOVOLTAICS IN AGRICULTURE

Sunlight may also be accustomed generate electricity exploitation PV star panels. {this is|this is typically|this can be} often a cost-friendly approach than typical ways of providing electricity particularly to a far off location wherever they need a drag in putting in power transmission lines. They need no moving elements and square measure easier to take care of than diesel fuels.

BENEFITS OF EXPLOITATION ALTERNATIVE ENERGY FOR AGRICULTURE

Unreliable offer of electricity is one in every of the highest considerations for several agriculture practitioners, several have even dealt serious loses. If you're considering the advantages of applying alternative energy, we tend to square measure noting some (if not all) of them for us.

A LOT CHEAPER THAN FOSSIL FUELS

On giant farms, alternative energy controlled can lead to low price than fossil fuels. The installation are going to be expensive however once you recover the endowed quantity the energy you used are going to be freed from price. to boot, you get subsidies from state and central government which is able to assist you to simply pay off the value of installation.

AN EFFECTIVE ANSWER TO DROUGHT

connected downside Every year farmers worry regarding drought and power cuts occurring with it. With alternative energy panels in situ, you do not need to think about a 3rd party to hold out your farming activities. star panels need negligible water and prove terribly useful in areas with water inadequacy.

CONCLUSION

Farmers square measure at the middle of the matter relating to international warming; since the increase in temperature affects the temperature change that successively affects the agriculture turn out. World population is incessantly increasing and also the demand for food merchandise is witnessing a major rise. exploitation alternative energy will facilitate US to curb temperature change and facilitate US fight the matter effectively.

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