

Ecuador solar multi-span glass greenhouse





Overview

Do multi-span glass greenhouses need external insulation?

To address the issues of excessive heat loss from the roofs of multi-span greenhouses and high energy consumption for heating during winter production, we propose an approach for the external insulation of the roof of multi-span glass greenhouses and have developed an external insulation system (EIS) to practice this approach.

What is a multi-span greenhouse?

The multi-span greenhouse is characterized by its semicircular roof. It is a modular structure that can be adapted to different climates and crops due to its resistance to wind and crop loads. The structure of the multi-span model can be modified adapting characteristics such as the span width or the ventilation system.

How can a multi-span greenhouse be insulated?

The most commonly employed insulation method for the roofs of multi-span greenhouses is currently the use of internal thermal screens [18, 19, 20]. Akpenpuun et al. reported that adopting two layers of cladding material in combination with a thermal screen produced an energy saving of 58.2%.

How efficient is a multi-span greenhouse energy screen?

Rabiu et al. used a TRNSYS model to estimate the thermal performance of 15 multi-span greenhouse energy screen materials; the study found that the multilayer aluminized ensemble screen (M3) achieved an exceptional energy retention rate of approximately 60%.



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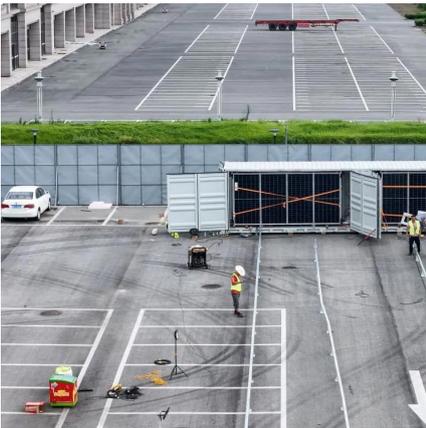
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