

Construction of solar glass greenhouse in Slovenia

Are solar greenhouses a viable alternative to horticultural production?

Solar greenhouses currently constitute the most energy-intensive branch of agriculture; the energy inputs (fuels and electricity) to meet the heat needs of greenhouses have a major impact on the cost and environmental sustainability of horticultural and floricultural production.

How to design a solar greenhouse?

The design of solar greenhouses is a challenging task and requires a thorough study of the annual climatic and microclimatic parameters of the places where the greenhouses are built, determining the shape, orientation, and materials of which the envelope is composed, even before installing an air conditioning system.

Is there a solar greenhouse in Cosenza (Italy)?

The solar greenhouse analyzed is existing and located in Cosenza (Italy), it is a Venlo-type greenhouse, characterized by a single span. The modelling of this greenhouse has been extensively studied, by analyzing different types of modelling, subsequently validated, in the study (Baglivo et al., 2020).

Do solar greenhouses perform well under different climate scenarios?

Solar greenhouses are currently the most energy-intensive agricultural sector. In literature, there is no worldwide mapping of solar greenhouse performance under different climate scenarios. This study analyzes the performance of a Venlo solar greenhouse for 48 localities around the world.

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Slovenia's northeastern region is set to host the country's largest greenhouse vegetable production complex, the GreenGardens project, with an investment of EUR80 million. The project will ...

Why Photovoltaic Glass Greenhouses Are Reshaping European Agriculture Western Europe's push toward carbon neutrality has sparked innovation in photovoltaic glass greenhouse systems. These ...

Features of Glass Solar Panel Greenhouse: The glass greenhouse boasts a modern and innovative appearance, stable structure, smooth visual lines, and high light transmission capability, capable of ...

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New Slovenian facility will double countries greenhouse acreage Prekmurje, a region in the north-east of Slovenia, will become the location of the country's largest greenhouse vegetable ...

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