

# **Solar glass greenhouse construction**





## Overview

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What is solar greenhouse?

The aim was to design and build a system that could be replicated in both rural and urban areas. Solar Greenhouse is the result of the investigation and search of new ways of adapting to modern life and withstanding future food and energy crises, reinterpreting the way we meet our most basic social needs in a more ecological way.

How does a solar greenhouse work?

In addition, a matrix of LED strip lights makes growth cycles easier, with the help of Black Light. The greenhouse roof was created with glass and was arranged in a 'diamond' shape to allow the complete capture of sunlight, which enters directly into the solar panels and allows the plants grown inside to receive direct light.

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.

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.



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