

Helsinki solar Glass Greenhouse Project





Overview

What is a greenhouse integrated PV (gipv) module?

Get in touch! Traditional greenhouses rely on external fossil fuel derived energy sources to power lighting, heating and forced cooling. Specially designed BiPV solar glass modules for greenhouses, Heliene's Greenhouse Integrated PV (GiPV) modules offer a sustainable alternative with no additional racking or support required.

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.

Do solar greenhouses have a transparent envelope?

Solar greenhouses are mainly made of a transparent envelope and the effect of the direct and diffuse component of solar radiation impacts the internal plant well-being. This study aims to identify the best solution of a transparent envelope on locations with different latitudes and evenly distributed around the globe.



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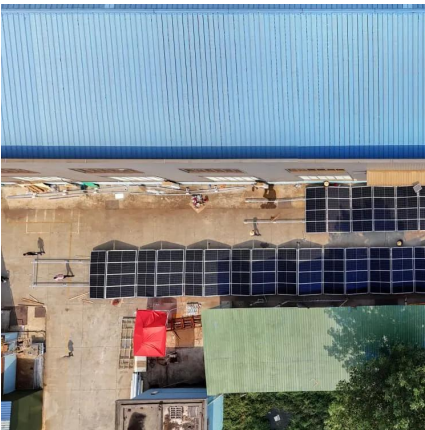
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