

# Which Nordic solar glass greenhouse is better





## Overview

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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.

Do solar greenhouses reduce external cold?

In continental/microthermal and polar climates, the best solutions strongly reduce the external cold. 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.

Do solar greenhouses work better in winter?

In dry and temperate/mesothermal climates, the best solutions work better in winter than in summer. In continental/microthermal and polar climates, the best solutions strongly reduce the external cold. Solar greenhouses are currently the most energy-intensive agricultural sector.

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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