

# **Minsk solar glass greenhouse**





## Overview

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How much energy does a glass greenhouse use?

For instance, a glass greenhouse located in Bucharest Romania (latitude 44.47 °N, longitude 26.06 °E) is about 638 kWh/m<sup>2</sup>. According to United Nations standards, this amounts to an energy input of 111 CNY/m<sup>2</sup> per winter, which is unacceptable in the Chinese vegetable market.

Are solar greenhouses energy-efficient?

Establishment and optimization of theoretical system of solar greenhouses. Other climate-similar regions can refer to the theory and development. China has been a global leader in energy-efficient solar greenhouse technology thanks to its incredibly low energy input since its inception.

Can solar energy be used in Chinese solar greenhouses?

Efficient utilization of solar energy in Chinese solar greenhouses. Establishment and optimization of theoretical system of solar greenhouses. Other climate-similar regions can refer to the theory and development.

Why are solar greenhouses the most energy-intensive agricultural sector?

Nowadays, solar greenhouses are the most energy-intensive agricultural sector. The high control of the indoor microclimate for the well-being of the crops allows, on the one hand, the maximum availability of quality products throughout the year, but on the other hand, results in high energy consumption.



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## Theory and application of sustainable energy-efficient solar greenhouse

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