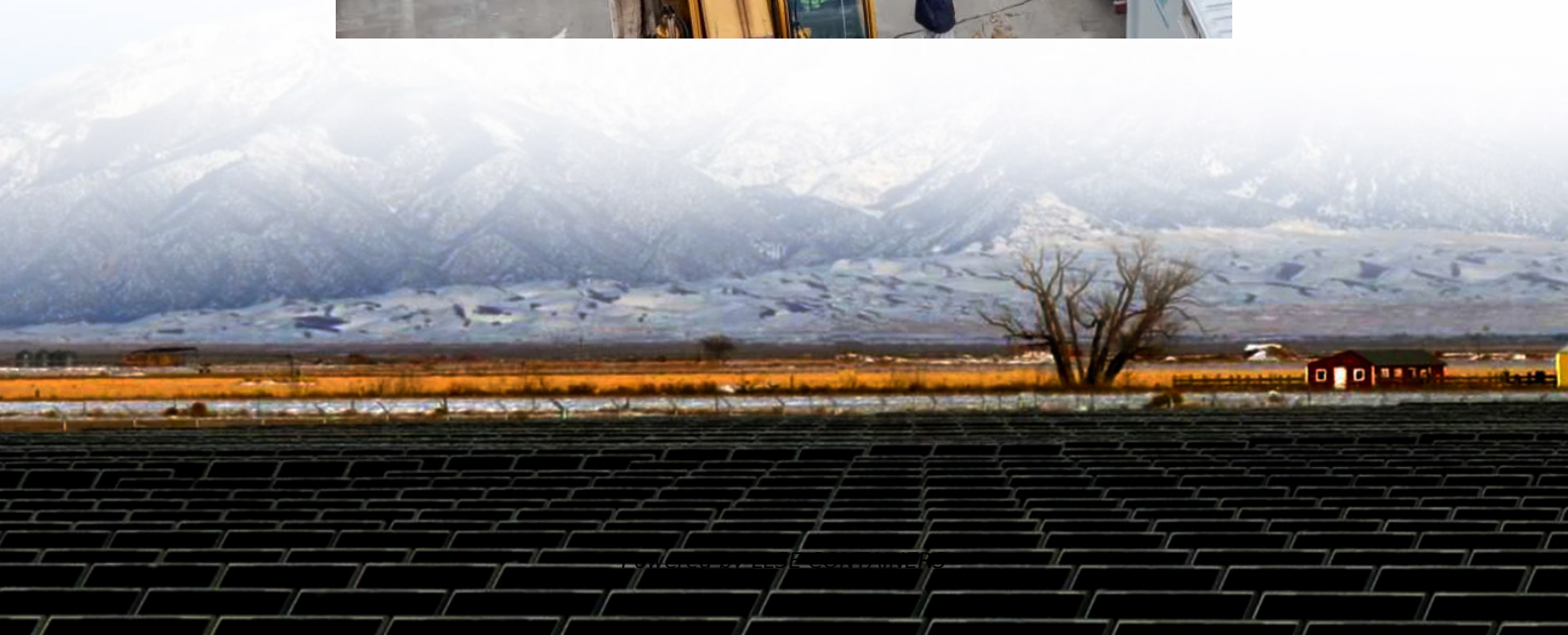


# Solar glass production control





## Overview

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How does solar control glass work?

Solar energy (or shortwave radiation) is received at the surface of the earth from the sun. It includes ultraviolet, visible, and near-infrared wavelengths – together ranging from 300 to 2,500 nm. Solar control coated glass can block a significant amount of this energy by reflecting and absorbing part of it.

Why is patterned glass used in crystalline solar modules?

In the production of crystalline solar modules patterned glass substrates are used in lieu of bare glass. Patterned glass increases the amount of incoming sunlight. Common optical inspection systems for quality assurance and process control are mostly designed for unstructured glass.

Is solar control glass a good option for a building?

The increased use of glass in architecture today makes it imperative to consider the comfort of a building's occupants. Solar control glass can be an attractive feature of a building whilst at the same time minimising, or even eliminating the need for an air conditioning system, reducing running costs of the building and saving energy.

What is a solar glass substrate?

Manufacturers of crystalline silicon solar modules apply glass substrates on the front side of the solar modules. This front glass will either be a patterned glass or a glass with anti-reflective coating (AR). As in all other glass manufacturing processes, solar glass substrates are subject to defects during production.



## Solar glass production control

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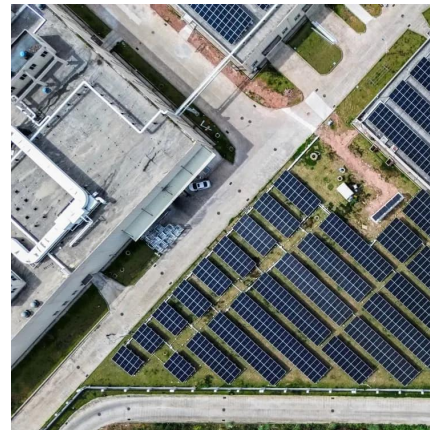


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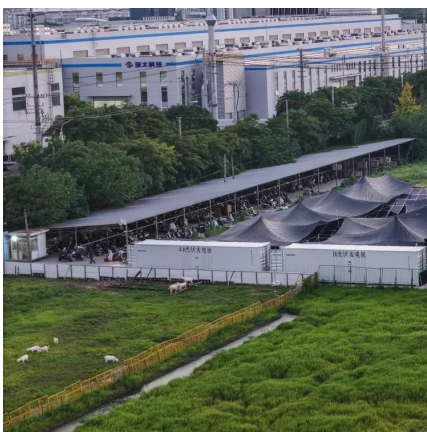
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In conclusion, the production of solar photovoltaic glass involves sophisticated technology and rigorous quality control measures. With the demand for renewable energy on the rise, the solar ...



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