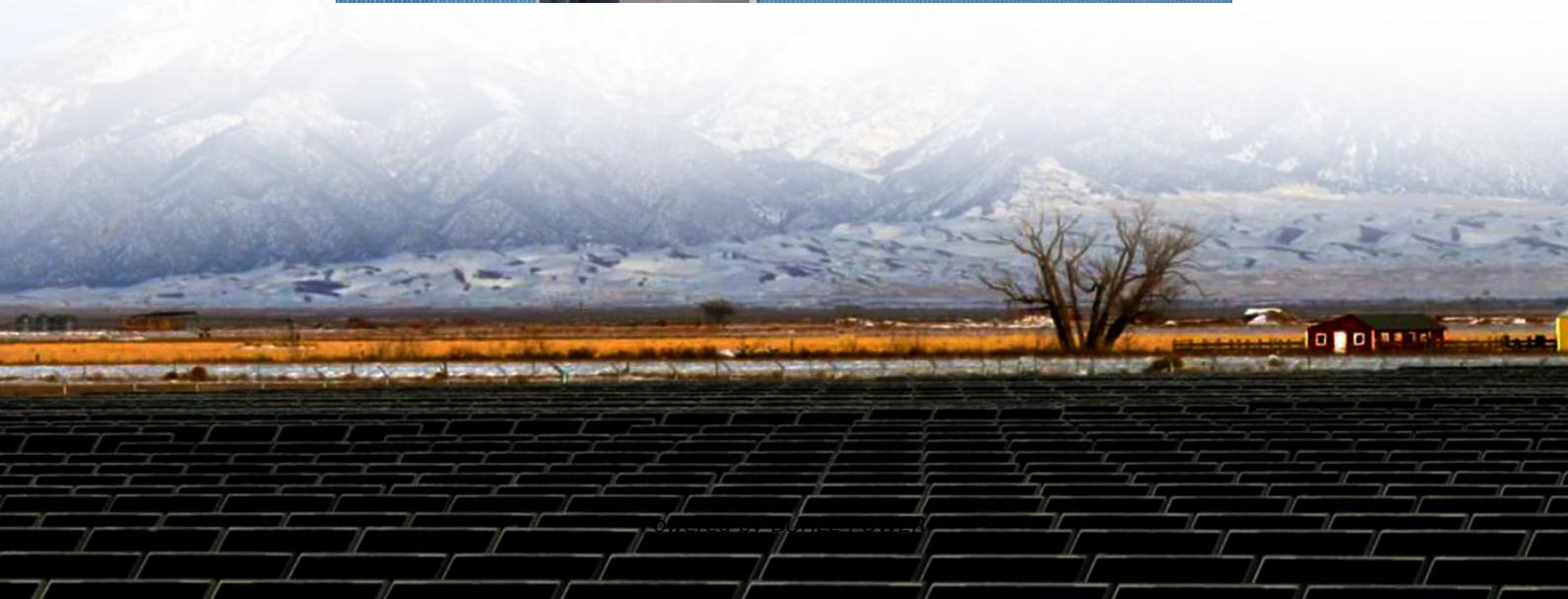
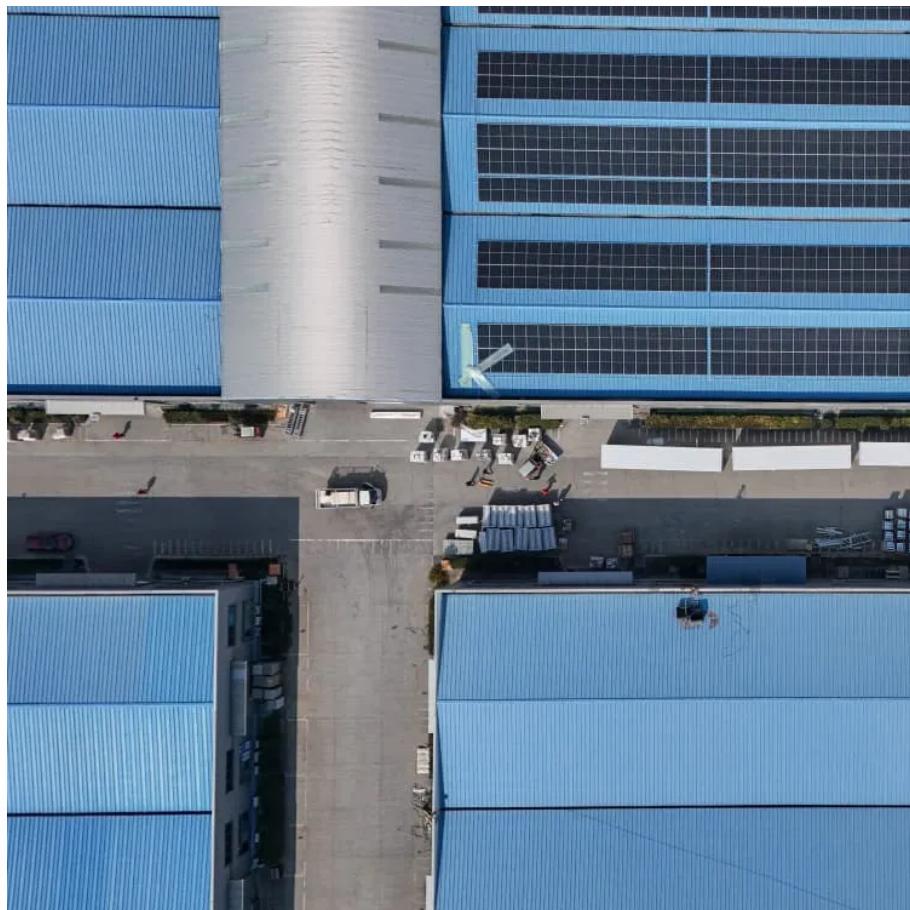




BUHLE POWER

# Solar glass content





## Overview

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What are the characteristics of glass for solar applications?

For solar applications the main attributes of glass are transmission, mechanical strength and specific weight. Transmission factors measure the ratio of energy of the transmitted to the incoming light for a specific glass and glass width. Ratio of the total energy from an AM1-5 source over whole solar spectrum from 300 - 2,500nm wavelength.

How much solar energy does commercial glass produce?

Base-line commercial glass has a solar transmission of 83.7%. I.e. 16.3% of the sun's energy do not even get to the PV material. The energy loss is due - in equal parts - to reflection on the surface and absorption within the glass due to iron impurities. The density of glass is about 2,500 kg/m<sup>3</sup> or 2.5kg/m<sup>2</sup> per 1mm width.

How much iron is in solar glass?

As one of the most crucial components of solar installations, photovoltaic glass demands high transparency. Therefore, strict requirements are imposed on the iron content in the silicon raw materials used for producing solar glass, with Fe<sub>2</sub>O<sub>3</sub> content typically ranging from 140 to 150 ppm.

What is Solar Photovoltaic Glass?

This article explores the classification and applications of solar photovoltaic glass. Photovoltaic glass substrates used in solar cells typically include ultra-thin glass, surface-coated glass, and low-iron (extra-clear) glass.



## Solar glass content



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## Solar Glass

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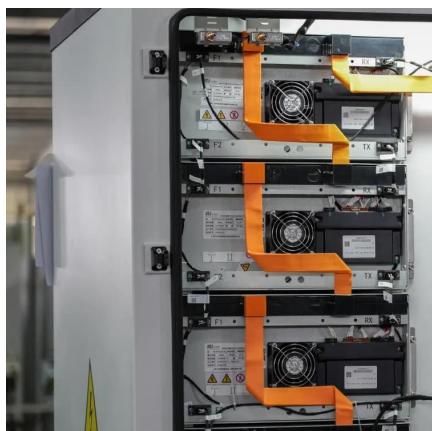
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Solar glass is used for protection and as mirror. For solar applications, transmission and reflection characteristics, mechanical strength and weight are of particular importance.



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