

The impact of Denmark's solar glass production reduction on





Overview

The 2023 production cut (-18% YoY) directly impacts: "The glass shortage could delay Europe's solar capacity targets by 6-9 months," warns Lars Mikkelsen, a Copenhagen-based energy analyst. Does the glass industry need a reduction in energy demand?

(Source: authors). The glass industry has strived for a reduction in energy demand since the 19th century . This necessity may become apparent when considering that the glass industry spent over \$100 billion to power its manufacturing plants in the USA .

Why is glass a challenging sector to decarbonize?

Energy use and carbon emissions associated with glass Industry is one of the most challenging sectors to decarbonize. It is responsible for over 30% of all greenhouse gas (GHG) emissions, of which the majority are emitted by energy-intensive industries . Glass, is definitely one of these subsectors. 4.1. Energy intensity of glass manufacturing.

How does glass production affect the environment?

The major environmental impact of glass production is caused by atmospheric emissions from melting activities. The combustion of natural gas and the decomposition of raw materials during the melting leads to the emission of CO₂. Beside water vapour, this is the only greenhouse gas emitted during the glass production.

Will Denmark reach 100 % renewable electricity consumption by 2028?

Denmark is projecting to reach 100 % renewable electricity consumption by 2028; however, as can be deduced from the final updated NECP, and as pointed out by stakeholders, this target could be in jeopardy without the 4 GW offshore wind energy.



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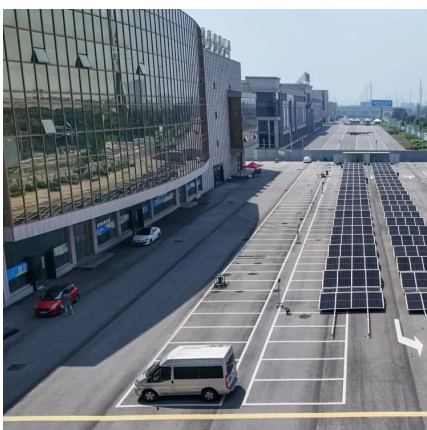
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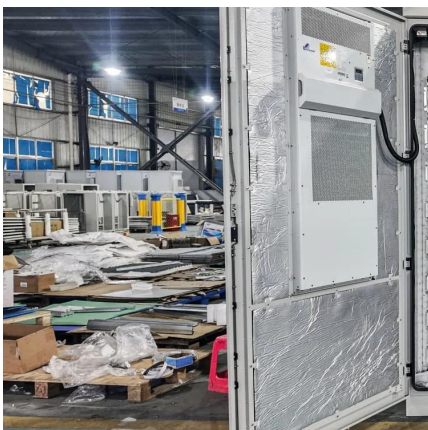


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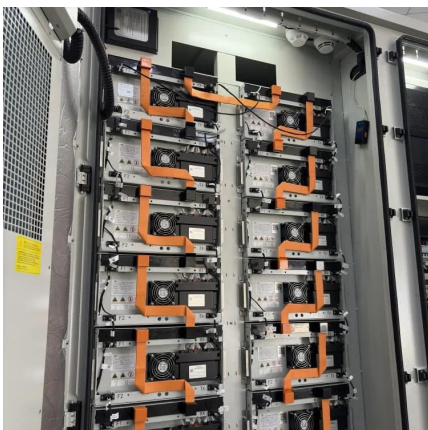
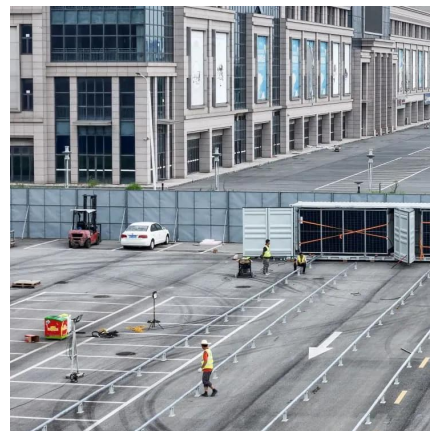


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