

German environmentally friendly solar glass production





Overview

Do glass-glass solar panels reduce emissions?

In the process, they also found that glass-glass modules enable an additional emissions reduction ranging between 7.5 to 12.5 percent compared to PV modules with backsheets, regardless of their production location.

Why did Grenzebach upgrade its production technology in 2020?

In response to the growing demand for PV modules, Grenzebach upgraded its production technology for solar glass in 2020. Since 2020, the company has distributed around 280 systems in the Cold End for the production of patterned glass on the worldwide market.

Are glass-glass PV modules a good choice?

Glass-glass PV modules (b) do not require an aluminum frame and therefore have a lower carbon footprint than PV modules with backsheets (a). Although photovoltaic modules convert sunlight into electricity without producing emissions, PV-generated solar energy does produce CO₂ emissions during production, transport and at the end of module life.

Why should glass and photovoltaic panels be partnered?

This not only provides necessary raw material for the glass industry, but also reduces the end-of-life environmental impact of photovoltaic panels. The collaboration marks a great milestone in the journey towards creating a more sustainable and circular glass and photovoltaic value chain.



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CO2 emissions of glass-foil and glass-glass modules for the various production processes (top) and share of energy, processes, components ...



GreenSolarModules

CO2 emissions of glass-foil and glass-glass modules for the various production processes (top) and share of energy, processes, components and transportation for the production locations ...



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