

Solar power generation glass factory work shortcomings





Overview

How does the glass industry meet its energy needs?

The Chinese glass industry meets its energy needs with fuel oil (13.1%), natural gas (15.5%), coal (44.3%), electricity, and other sources (27.1%). On the other hand, the USA and Europe use natural gas as an energy source in the glass industries with a share of 80% and 90%, respectively (Zier et al. 2021).

What will happen to solar panels during the energy boom?

In the near future, the technology will face another severe threat when the panels put during the early stages of the energy boom reach the end of their anticipated lifetime and are finally thrown in landfills. When the life duration of these panels reaches roughly 25 years, as indicated by the manufacturer, their productivity begins to decline.

Will natural gas be the main fuel for glass production in 2050?

Natural gas will continue to be the main fuel for glass production until 2050 (Griffin et al. 2021). But in the future, countries are planning to use renewable energy sources such as hydrogen, nitrogen, biomass, solar energy and wind energy instead of carbon-based fossil fuels.

What are the energy requirements for glass production?

The theoretical energy requirements for glass production are endothermic heat for glass reaction, sensible heat for glass heating, and sensible heat for intermittent gases (gases from the glass reaction) (Sardeshpande et al. 2007).



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