

Coalbed Methane solar Glass





Overview

Enriching CBM (coal bed methane) and then making good use of the enriched CH₄ have great significance in protecting the environment. This paper proposes a new system that uses solar energy to enrich C.

What is Coal Bed Methane (CBM)?

Coal bed methane (CBM), also known as coal seam gas (CSG), has gained prominence as a critical energy resource driven by increasing global demand for natural gas - a lower-emission alternative to conventional fossil fuels such as coal and oil - amid the global shift toward a low-carbon future .

How to identify technology opportunities for coal bed methane exploitation?

To find the unexplored technology opportunities and indicate the potential breakthroughs for the technology development of coal bed methane (CBM) exploitation, this study proposes an automated identification approach by combining the patent classification codes and generative topographic mapping (GTM) based on patent analysis.

What is microbial-enhanced coalbed methane?

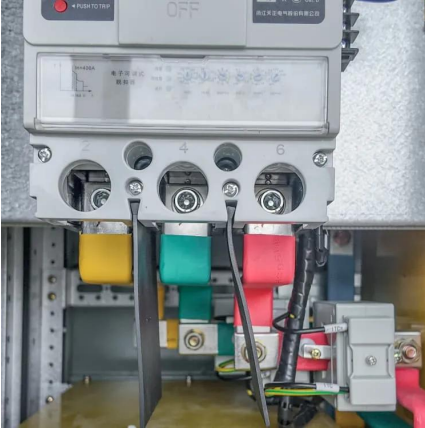
Microbial-enhanced coalbed methane (MECoM) technology presents a sustainable solution to solve several problems arising from increasing coal consumption. This technology involves a natural process that mimics and enhances the biogenicity of coal gas to achieve sustainable use of the resource.

Is solar-energy-mediated methane conversion possible in photocatalytic systems?

The recent progress of solar-energy-mediated methane conversion in photocatalytic systems, photoelectrocatalytic systems, and photoenhanced thermocatalytic systems is reviewed. Major opportunities and challenges in this field are discussed as well.



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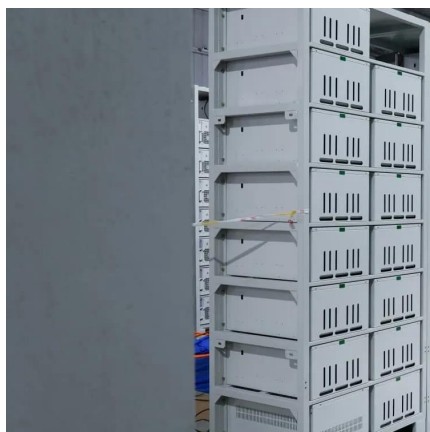
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