

Copenhagen Mobile Energy Storage Container Low-Pressure Type





Overview

What are large-scale compressed hydrogen storage options?

This paper focuses on the large-scale compressed hydrogen storage options with respect to three categories: storage vessels, geological storage, and other underground storage alternatives.

What underground storage technologies can be used in large-scale hydrogen storage?

In this section, two other interesting underground storage technologies that can be utilized in large-scale hydrogen storage are discussed; the Underground storage of a blend of natural gas and hydrogen, and the Underground methanation reactor.

What are the challenges of hydrogen storage as compressed gas?

Hydrogen storage as compressed gas have challenges related to the high energy requirement because of hydrogen's low specific gravity . Furthermore, there are some material challenges pertaining to the materials of the storage tanks.

Why is hydrogen storage a major challenge?

However, the safe and efficient storage of hydrogen remains a major challenge due to its low energy density and high compressibility. Hydrogen needs to be stored under high pressure to achieve practical energy density for various applications.



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