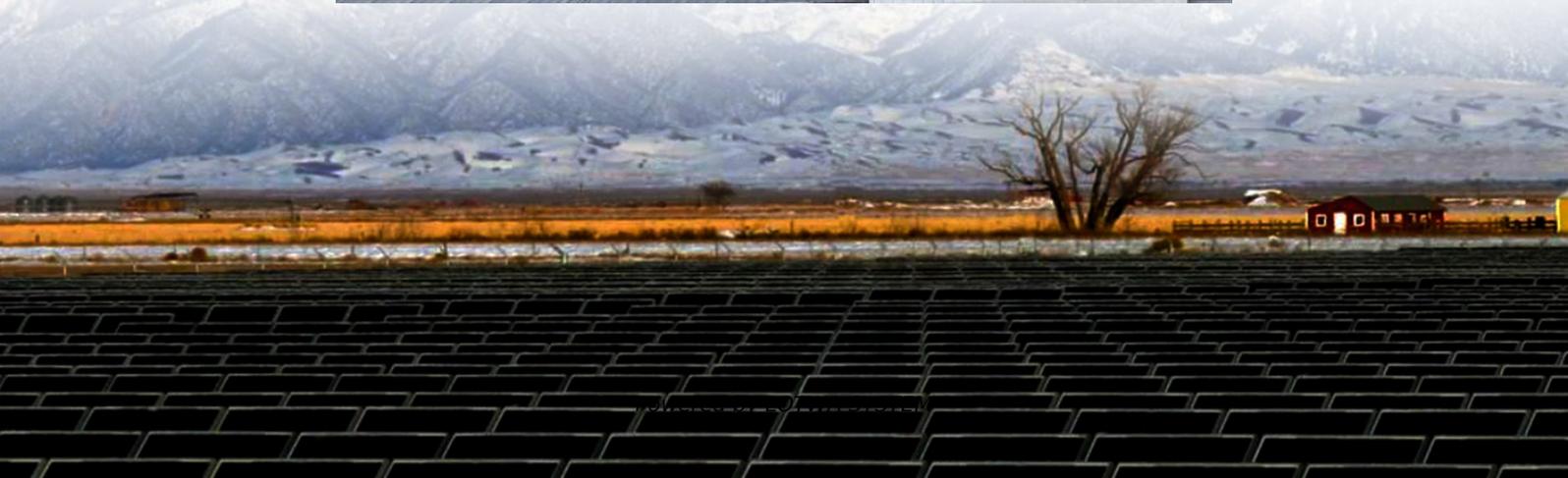


Price of High-Pressure Energy Storage Containers for Field Research





Overview

What is a high pressure hydrogen storage container?

This was a new type of high-pressure hydrogen storage container that had the advantages of high mass and volume density, good safety, low-cost parameters, and did not undergo hydrogen embrittlement. It was initially anticipated that this type of container would be combined with fuel cells and applied to various electronic mobile devices.

What is a levelised cost metric for hydrogen transport and storage technology?

We researched published data on hydrogen transport and storage technology costs with the aim to present a range of levelised cost estimates for different technology/form combinations. The intention of a levelised cost metric is to provide a simple cost comparison between different types of technologies.

What materials are used for high-pressure hydrogen storage containers?

This article systematically presents the manufacturing processes and materials used for a variety of high-pressure hydrogen storage containers, including metal cylinders, carbon fiber composite cylinders, and emerging glass material-based hydrogen storage containers.

What is a glass hydrogen storage container?

The glass hydrogen storage containers included hollow glass microspheres and a capillary glass array. This was a new type of high-pressure hydrogen storage container that had the advantages of high mass and volume density, good safety, low-cost parameters, and did not undergo hydrogen embrittlement.



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