



LLSE CONTAINERS

# Reykjavik Mobile Energy Storage Container Low-Pressure Type





## Overview

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What is high pressure hydrogen storage?

High-pressure hydrogen storage refers to storing hydrogen in a high-density gaseous form in a pressure vessel by increasing the pressure, which facilitates the transportation and use of hydrogen. It is currently the most common, direct, and mature method of hydrogen storage.

Can solid-state hydrogen storage materials be used for large-scale storage?

In solid-state hydrogen storage materials, Shanghai Jiaotong University and H2 Store (Shanghai) Energy Tech. Co. Ltd. jointly developed China's first 70 kg-level magnesium-based solid-state hydrogen storage prototype device, which can be used for large-scale storage and transportation of hydrogen in the future.

What is a type 1 pressure vessel for hydrogen storage?

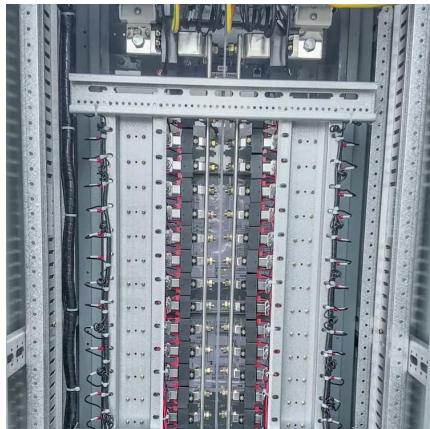
Type I pressure vessels for hydrogen storage appeared at the end of the nineteenth century. They were able to store 25 Nm<sup>3</sup> of hydrogen at 12 MPa using a 500-kg steel cylinder. Today, their typical service pressure has increased to between 15 and 30 MPa.

What are material-based hydrogen storage technologies?

Despite the relatively low technology readiness level (TRL), material-based hydrogen storage technologies improve the application of hydrogen as an energy storage medium and provide alternative ways to transport hydrogen as reviewed in Sections 2.4-2.6.



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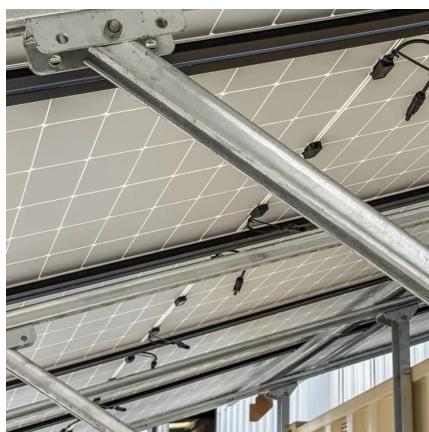


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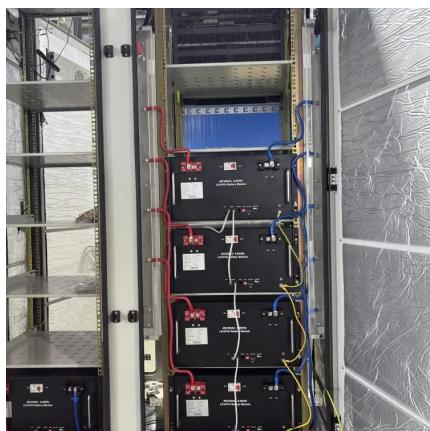
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