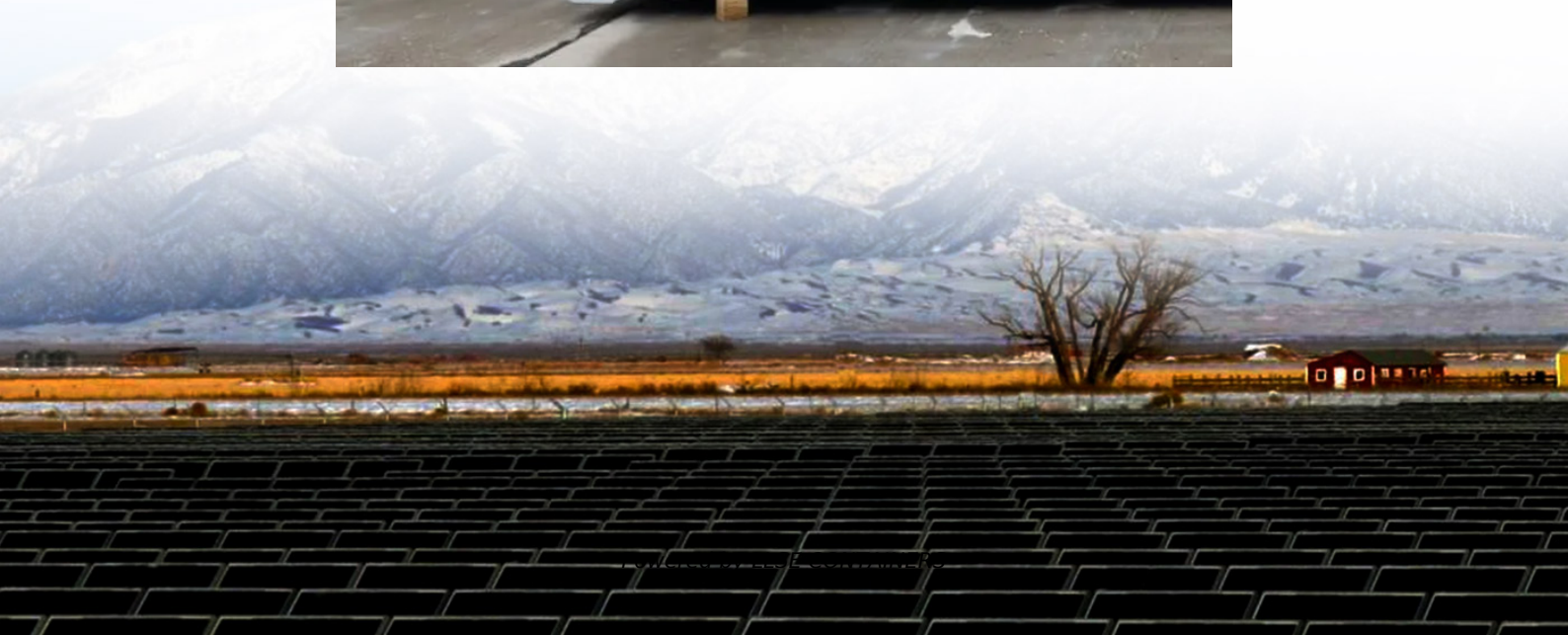


# **Damascus Energy Storage Container Low-Pressure Type**





## Overview

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What is a cryogenic liquid hydrogen storage tank?

Cryogenic liquid hydrogen storage tank. Photo from National Renewable Energy Laboratory Cryogenic liquid storage tanks, also referred to as dewars, are the most common way to store large quantities of hydrogen. Super-insulated low pressure vessels are needed to store liquid hydrogen at  $-253^{\circ}\text{C}$  ( $-423^{\circ}\text{F}$ ).

What energy storage container solutions does SCU offer?

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What are the different types of high pressure gaseous storage vessels?

Storage options today include insulated liquid tanks and gaseous storage tanks. The four types of common high pressure gaseous storage vessels are shown in the table. Type I cylinders are the most common. Currently the costs of Type III and Type IV vessels are greater than those of Type I and II vessels.

What type of storage tank is used for hydrogen liquefaction?

Storage is at low pressures so rather thin and cheap storage tanks can be used. In the liquid form hydrogen is non-corrosive and stainless steel and aluminum alloy vessels with sufficient insulation are used for the cryogenic storage. However, the cost of liquefaction is high so is the energy used for the liquefaction [1, 9, 18].



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