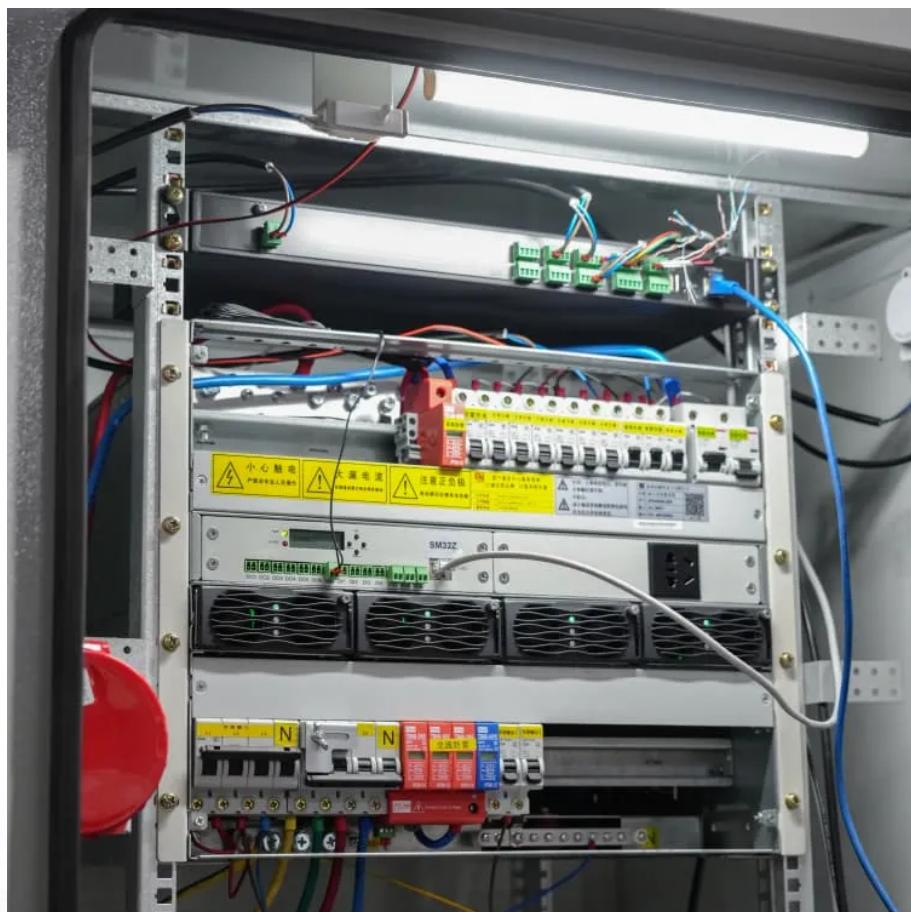




**GETON CONTAINERS**

# **Gabon Liquid Air solar container energy storage system**





## Overview

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What is a liquid air energy storage system?

Further analysis of dynamic conditions should be done, with the aim of identifying any potential design implications. Liquid Air Energy Storage (LAES) systems are thermal energy storage systems which take electrical and thermal energy as inputs, create a thermal energy reservoir, and regenerate electrical and thermal energy output on demand.

Should liquid air energy storage systems be integrated with nuclear power plants?

Integration of liquid air energy storage systems and nuclear power generation systems has been analysed due to the potential benefits both systems can undergo as a result of integration. Nuclear power plants are inflexible in that they cannot easily adjust generation load to meet demand (due to threatening the reactor core and cladding integrity).

How efficient is a liquid air storage system?

The research placed the efficiency for a liquid air storage system's complete charge and discharge cycle at 20%-50%, though Highview rebutted with a 50%-60% round-trip efficiency estimation for a standalone system. Either way, LAES lags behind PSH (65%-85%) and batteries (80%-95%) in efficiency.

Where is the cryogenic energy storage plant located?

The pilot plant has now been relocated to the University of Birmingham Centre for Cryogenic Energy Storage, to support further testing and academic research. The plant is connected to the UK's national grid, and has successfully undergone automated testing for one of the large US electricity markets.



## Gabon Liquid Air solar container energy storage system



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