

# **Cost of Grid-Connected Mobile Energy Storage Containers at US Airports**





## Overview

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Why are airport energy systems so expensive compared to other microgrid designs?

Due to the high upfront investment costs of the hydrogen energy system, the airport energy system integrated with hydrogen production and storage facilities has high initial cumulative costs comparing with other microgrid designs.

How does energy storage impact the grid and transportation sectors?

Energy storage and its impact on the grid and transportation sectors have expanded globally in recent years as storage costs continue to fall and new opportunities are defined across a variety of industry sectors and applications.

Can airport energy system be a micro-grid?

The electrification of airport energy system as a micro-grid is a promising solution to achieve zero emission airport operation, however such electrification approach presents the engineering challenge of integrating new energy resources, such as hydrogen supply and solar energy as attractive options to decarbonize the present system.

What are energy storage technologies?

Energy storage technologies, store energy either as electricity or heat/cold, so it can be used at a later time. With the growth in electric vehicle sales, battery storage costs have fallen rapidly due to economies of scale and technology improvements.



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### [Energy Storage Cost and Performance Database](#)

hydrogen energy storage pumped storage  
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For more information about each, as well



as the ...



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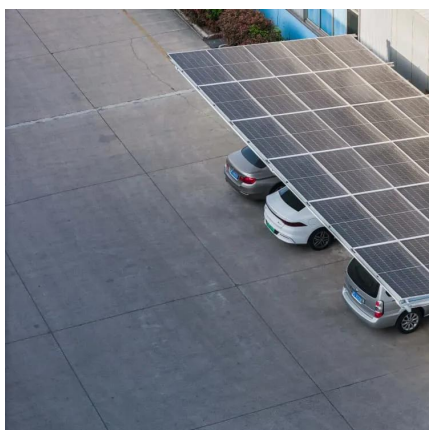
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