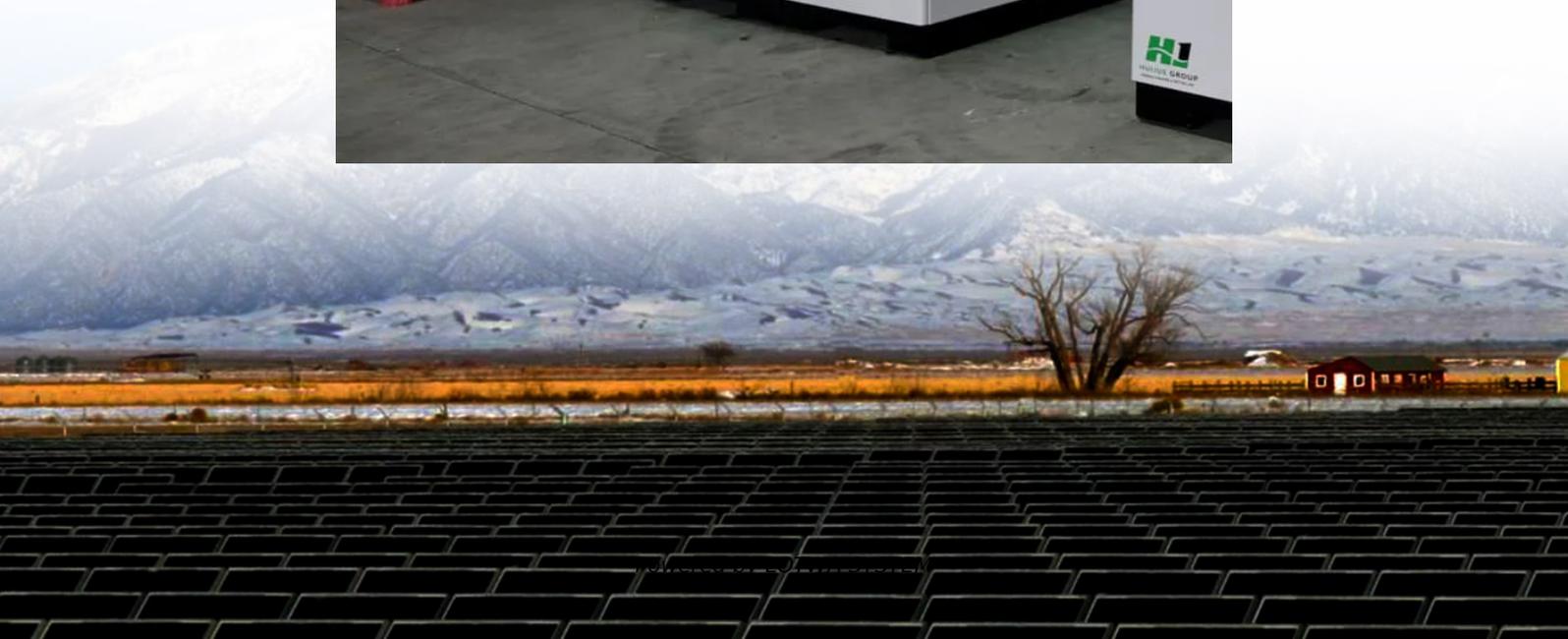


Armenian airport uses mobile energy storage containers for communication





Overview

How can airports transition to low-carbon transport systems?

Hybrid renewable integration, electrification, hydrogenation, spatiotemporal energy sharing and migration, and optimisations are necessary roadmaps for the transition towards low-carbon airport transportation systems.

What are the energy demands in the airport?

(Note: energy demands in the airport include both static and movable energy demands. The former includes power demands for runway lights, telecommunication system in control tower, data processing computer and radar navigation system. The latter includes aircrafts, FCEVs and electrical vehicles.). 3.3. Energy storages and power characteristics.

What energy sources are used in airports?

Depending on different energy forms, energy resources and supply systems mainly include traditional fossil fuels, biogas, biomass, hydrogen, solar PVs, wind turbines and power grid. The magnitude of the carbon-neutral level of airport systems is highly dependent on the proportion of renewable sources to the total energy resources.

How do Airport energy systems work?

An airport energy system with solar PVs, electrochemical battery and hydrogen energy storages is shown in Fig. 5. Renewable power from solar PVs is to support electric vehicles (EVs) via powerful direct current (DC) charger, aircraft electrical energy systems (such as cabin lighting, HVAC, monitoring systems and so on).



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