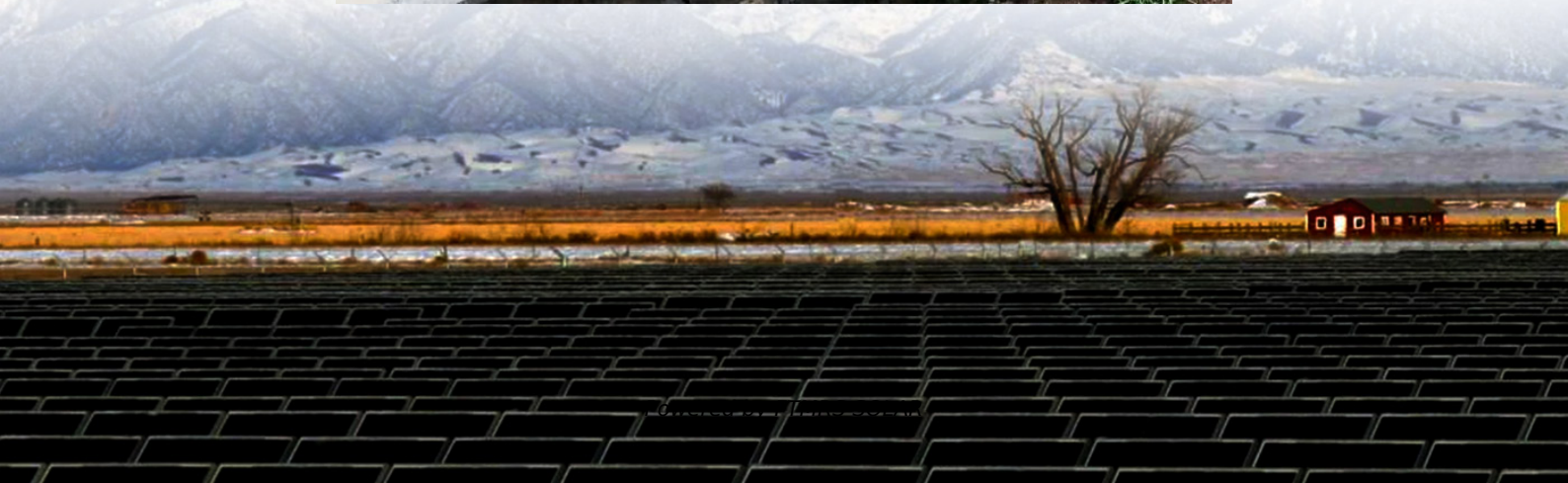


Support for Grid-Connected Solar-Powered Container Terminals for Airports





Overview

How can a solar energy system improve airport energy management?

By combining solar power, fuel cells, and battery storage into an automated system, the project sets a new standard for airport energy management. The use of an EaaS model further enhances financial and operational efficiency, reducing risk and ensuring long-term performance.

What is a terminal one solar array?

The Terminal One solar array consists of 13,000 panels spanning the terminal roof, generating 6.63 MW of electricity. The array will work in tandem with 3.84 MW of fuel cells and a 1.5 MW (3.34 megawatt-hour) battery energy storage system, creating one of the most advanced microgrids in the country.

Do airports need a microgrid?

In an environment where airports face increasing energy demands, delayed grid connections, and the risks associated with grid outages, microgrids offer a practical solution. “Plugging into the grid takes longer, costs more, and isn’t always reliable or clean,” said Jana Gerber, President of Schneider Electric Microgrid North America.

What is JFK's Terminal One microgrid?

This project will include a 7.5 MW battery storage system and 6 MW of community solar, reinforcing JFK’s commitment to clean energy. The Terminal One microgrid presents several advantages for facility managers, architects, and engineers, making it a model for future airport projects.



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