



FTMRS SOLAR

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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Harnessing Renewable Energy in Container Terminals

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The shift from conventional fuel-powered vehicles to electric vehicles is one possible step for a sustainable transformation in the logistics sector, such as at container terminals, where heavy ...

How JFK's Terminal One Solar Microgrid is Creating a Model ...

Dec 5, 2025 · As airports and other energy-intensive facilities face growing challenges, the JFK microgrid serves as a blueprint for how innovative design and strategic partnerships can ...

Airport Solar System Burnishes Hactl's Green Credentials

4 days ago · The solar system is one of the first large-scale, grid-connected projects in support of CLP Power's renewable energy Feed-in-Tariff (FiT) Scheme on Hong Kong's airport island.

Airports Going Green: The Rise of Solar ...

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What are the infrastructure needs for electrified container terminals

What power infrastructure is needed for electrified container terminals? Electrified container terminals require robust power infrastructure including high-capacity electrical substations, ...



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