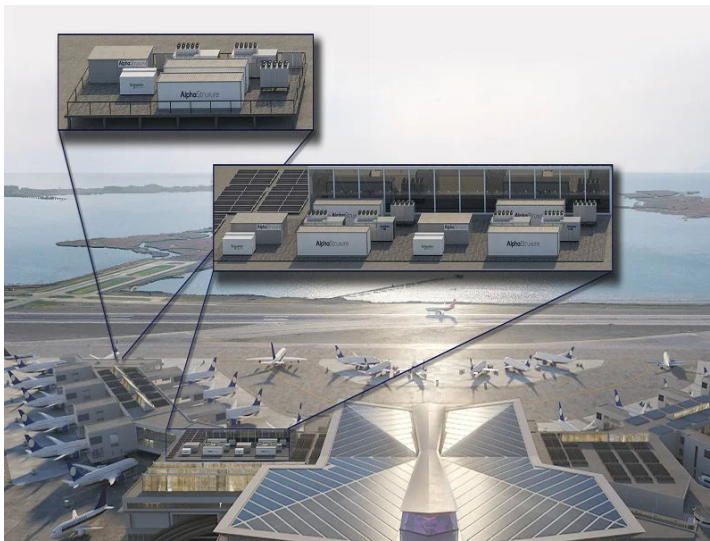


News

AlphaStruxure to develop microgrid at JFK's New Terminal One

The microgrid will have the potential to transform NTO into a resilient airport transit hub in the New York region.

January 27, 2023



The microgrid comprises 7.66MW of rooftop solar panels, 3.68MW of fuel cells, and 2MW/4MWh of battery energy storage. Credit: Alphastruxure / PRNewswire.

U S-based firm [AlphaStruxure has secured a contract](#) to design, build, and operate integrated microgrid infrastructure at the New Terminal One (NTO) at John F. Kennedy (JFK) International Airport in New York.

The 11.34MW microgrid will have the potential to transform the NTO into a fully resilient airport transit hub in the New York region that can function off-grid during power disruptions.

The microgrid comprises 7.66MW of rooftop solar panels, 3.68MW of fuel cells, and 2MW/4MWh of battery

energy storage, and will use re-claimed heat to generate chilled water and heat hot water.

The 7.66MW of rooftop solar system will feature more than 13,000 solar panels, making it the largest rooftop solar array in New York City and on any US airport terminal.

AlphaStruxure CEO Juan Macias said: “This New Terminal One infrastructure project illuminates a new pathway to decarbonising the air transportation sector.

“We’re thrilled to provide a holistic microgrid solution that will keep NTO powered through outages and advance the city, state, and Port Authority’s ambitious decarbonisation goals.

“This project is paving the way for all transportation hubs and municipalities across the country. Not only is it about resilient energy, it’s about decarbonisation, risk transfer, and cost predictability via the Energy as a Service business model.”

AlphaStruxure will deliver the project to the NTO consortium under an Energy as a Service (EaaS) contract, which is a long-term agreement ‘ensuring predictable operating costs and guaranteed performance, without upfront capital expenditures’.

The NTO consortium includes companies such as [Ferrovial](#), Carlyle, JLC Infrastructure, and Ullico, which is constructing the international terminal at JFK in alliance with the Port Authority of New York and New Jersey (PANYNJ).

This terminal will serve as a global gateway to the New York metropolitan area. The first gates are scheduled to

launch in 2026, with full completion expected by 2030.

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