

AIRPORT CHALLENGE

Transform New Terminal One into a resilient airport that can function off-grid during power disruptions and stabilize energy costs over the long-term.

SOLUTION

- Integrated 11.34-megawatt microgrid comprised of :
 - 7.66 MW rooftop solar,
 - 3.68 MW fuel cells,
 - 2MW/4Wh battery energy storage,
 - A circular waste heat to chilled water system
- Consists of four power islands
- The AlphaStruxure Integrate digital platform manages the microgrid performance and operations in a cyber-secure environment

RESULT

Largest rooftop solar array in New York City

- 38% decrease in immediate greenhouse gas emissions over source energy
- 100% airport operations during power disruptions and the first fully resilient airport transit hub in the New York region
- Compliance with ambitious New York State, City, Port Authority sustainability mandates
- Long-term cost predictability

