

# **Price reduction for 40-foot solar-powered containers used in drone stations**





## Overview

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Can solar panels power cabinets & charge drones in long-term planning?

This study proposed the use of solar photovoltaic (PV) panels to power cabinets and charge drones in long-term planning. The solar power system includes 10 PV panels and a 20kW lithium iron phosphate (Li-FePO<sub>4</sub>) battery.

How much solar can a 20 foot container hold?

20 foot containers can expand from 3,000W of solar up to 6,000W. 40 foot containers can expand from 3,000W up to 12,000W of solar in the future. We love the strategically placed solar panels on top of the container roof - we've accomplished this secure mounting with our field tested RPS Scalable Ground Mount.

How can solar-powered drones save energy?

Improved energy storage solutions, such as high-capacity batteries and energy-dense supercapacitors, play a crucial role in storing excess energy generated by the solar panels for use during nighttime or adverse weather conditions. Solar-powered drones are equipped with solar panels integrated into their wings or body.

How much does a drone delivery cost?

Drone deliveries significantly enhance accessibility for individuals with limited transportation options and services. They are more cost effective than traditional express delivery methods, costing around \$1.23 per delivery compared to \$5.33 for a four-mile distance by electric van (Tavares & Brussels, 2019).



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