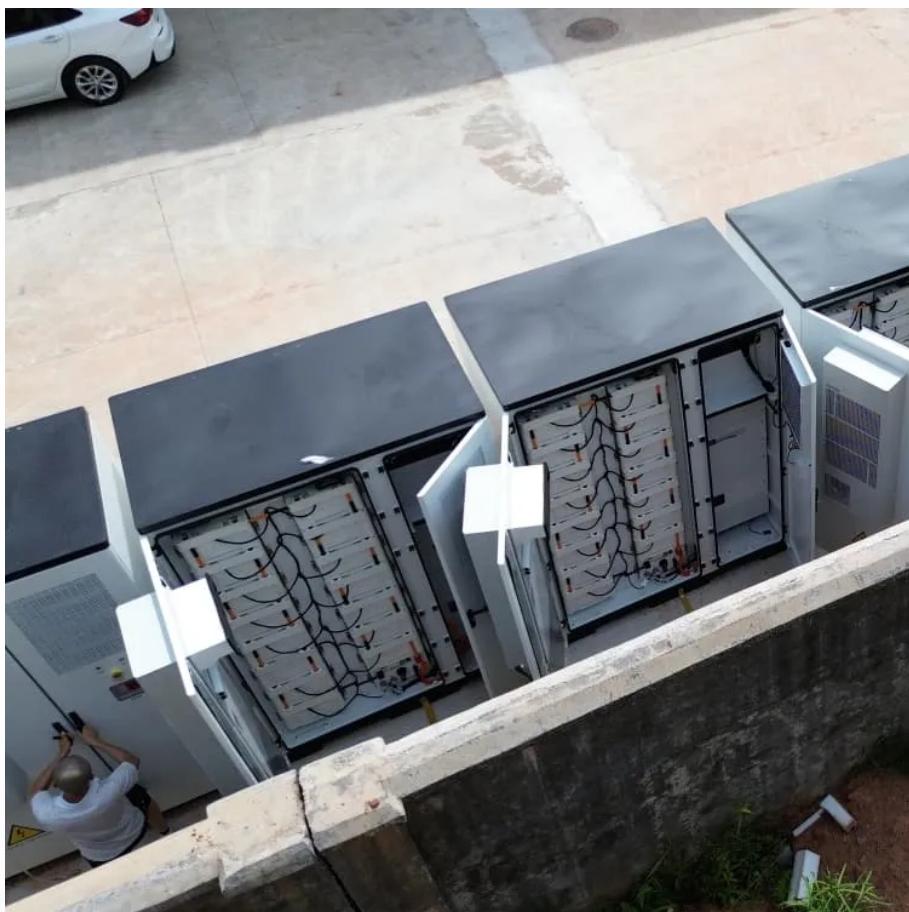




MODERNIZATION SOLAR

# 15kW Photovoltaic Container Used in East Asia Data Center





## Overview

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Why do data centres need power in Asia Pacific?

Driven by soaring demand for AI, cloud and advanced digital services, data centres across Asia Pacific are expanding rapidly – and so is their need for power. This is more than an energy challenge. It's a connectivity challenge. Grid infrastructure needs to evolve, expanding and adapting to manage fluctuating demand and diverse energy sources.

How can battery energy storage support data centre operations?

Given the intermittent nature of renewables like solar and wind, on-site energy storage is increasingly essential to support 24/7 data centre operations. One emerging solution is the Battery Energy Storage System (BESS), which stores surplus energy and discharges it during periods of low production or peak demand.

How will Asia Pacific's AI-related data centre capacity grow in 2028?

Asia Pacific's AI-related data centre capacity is expected to grow at a CAGR of 21% from 2.2 GW in 2024 to 4.8 GW in 2028. This growth is being further fuelled by the rapid expansion of the region's public cloud services market, as organisations continue to migrate workloads to the cloud at scale.

How will Asia Pacific's Data Centres grow?

Compared to more developed markets, Asia Pacific's data centres are expected to grow at a faster pace. Strong demand is set to continue, with major capacity expansions underway in key hubs such as Tokyo (Japan), Mumbai (India), Melbourne (Australia) and Johor (Malaysia) – collectively accounting for over 5 GW<sup>1</sup> in planned or in-progress capacity.



## 15kW Photovoltaic Container Used in East Asia Data Center



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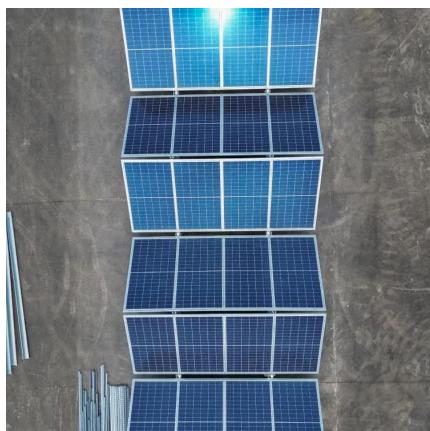
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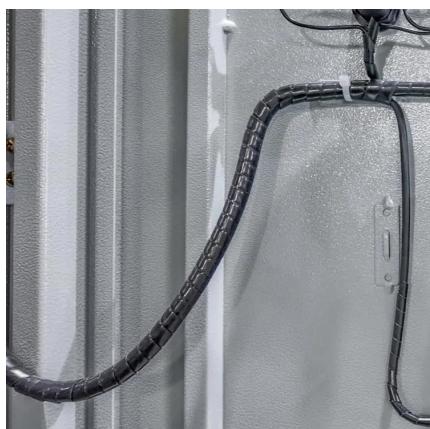
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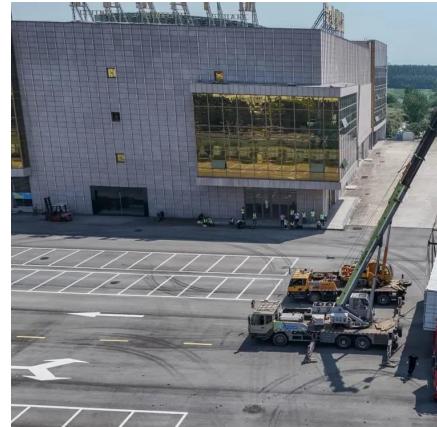
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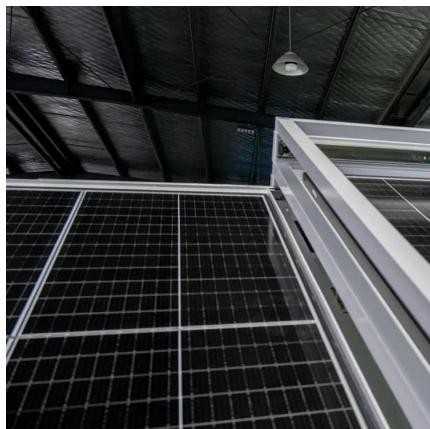
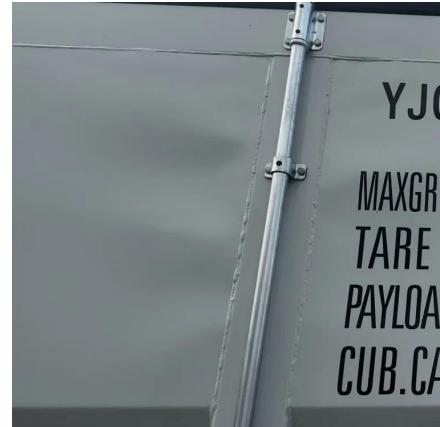
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