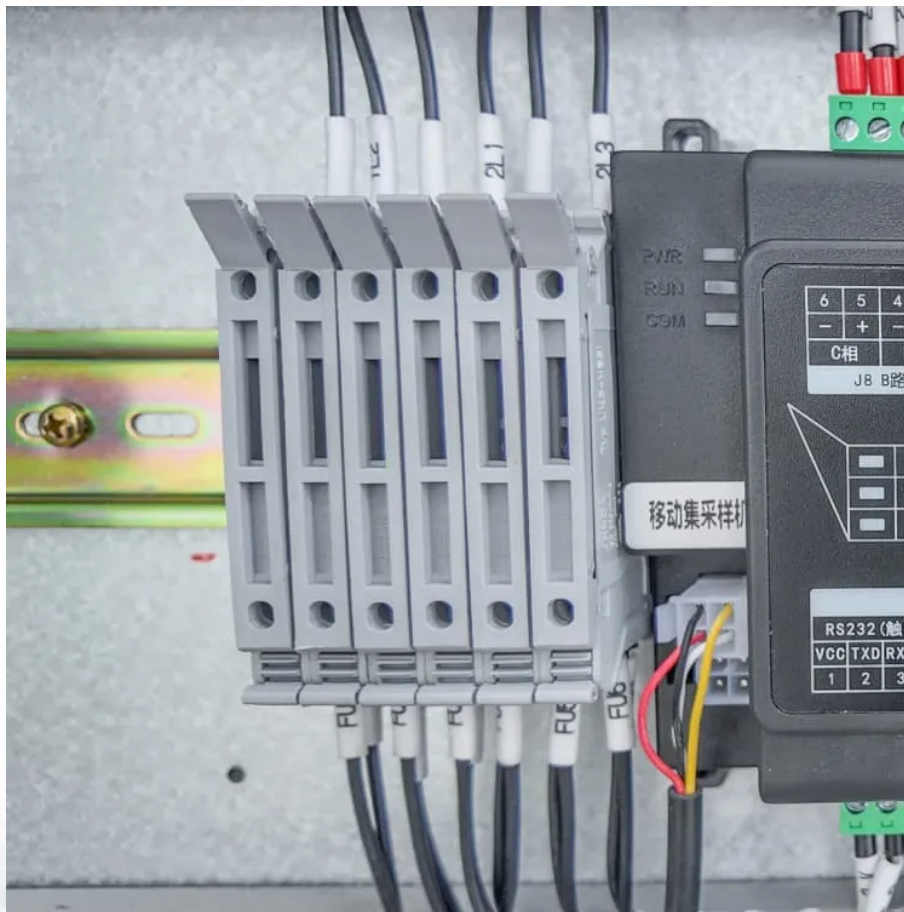


# Power consumption of main equipment in solar container communication stations





## Overview

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Why should a base station use solar energy?

Solar energy and new energy sources: Various factors are encouraging operators to add solar energy to all base stations, including climate change and the need to conserve energy and reduce emissions, the continued drop in cost of new energy sources such as photovoltaics, and the rising cost performance of applications.

How can container runtimes help save energy?

These runtimes could prioritize energy conservation while maintaining application performance, contributing to sustainable container operations. The efficient utilization of containers reduces resource wastage and contributes significantly to energy savings.

Why do we need energy evaluation approaches in containerized clouds?

Recently, container-based solutions have become de facto compute units of modern cloud-native applications. However, the exponential growth in data traffic and the power consumption of these technologies to handle high data traffic alarm the strong need for energy evaluation approaches in containerized clouds.

How can data centers reduce power consumption?

Existing works mainly address power consumption reduction in the cloud infrastructure and its network links . The integration of renewable energy (e.g., solar, wind) sources into data centers could significantly reduce power consumption .



## Power consumption of main equipment in solar container communication

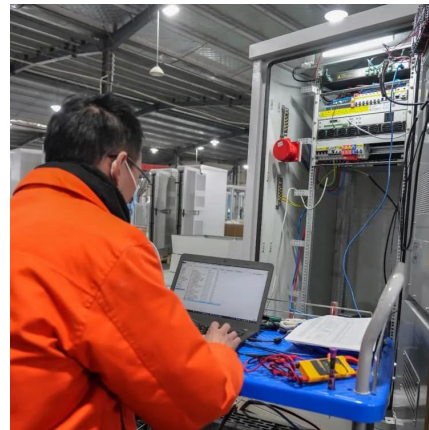


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