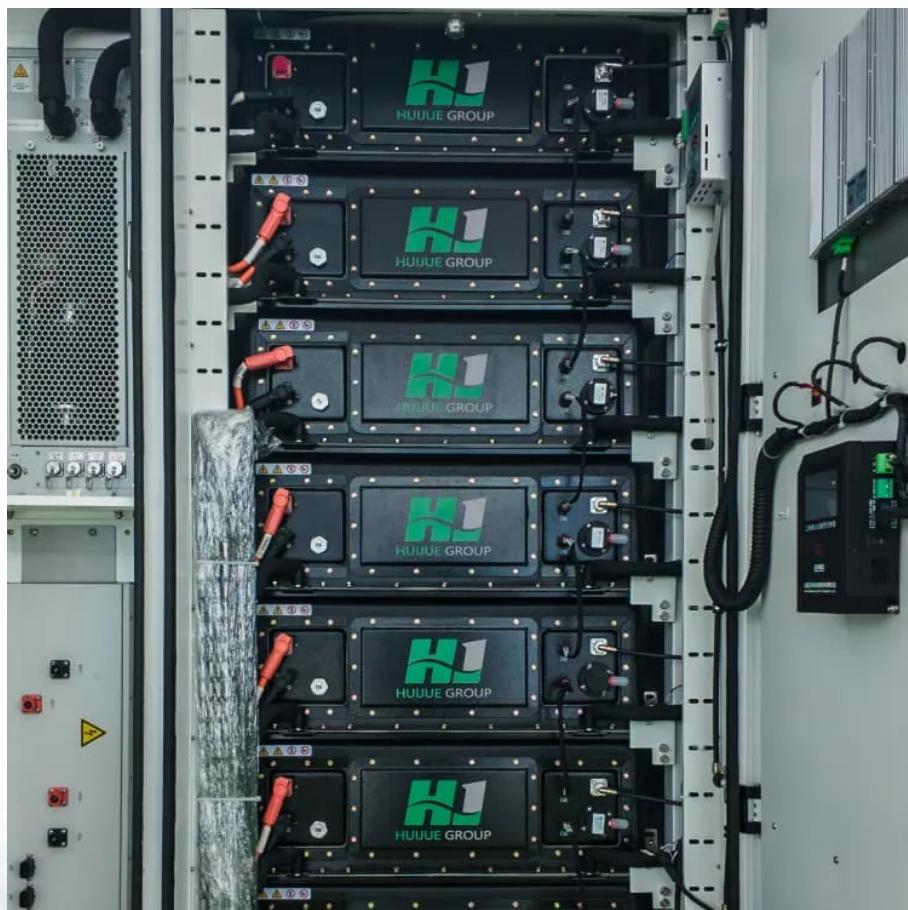**FTMRS SOLAR**

How to calculate the power consumption of container energy storage power station

Overview

How is energy consumption calculated in a container terminal?

Energy consumption was calculated based on utility data as well as fuel and electricity consumptions for each container-handling equipment in the container terminal. CO_2 emissions were estimated using movement modality based on the number of movements of and distance travelled by each container-handling equipment.

How is power consumption measured?

The experiment starts with a 5 % CPU load, with the count growing linearly with each step, reaching 100 % in the final step. During this process, the power consumption is measured by using different tools at every step for subsequent analysis (i.e., s-tui, Kepler, scaphandre, and Meross smart plug).

How is energy used in container terminals?

Energy used in container terminals are obtained from the electricity and fuels, mainly diesel. Container cranes are the only equipment that uses electricity. Here, energy consumption data was obtained from historical records of the fuel and electricity consumptions at the destination terminal.

How do we estimate the power consumption and temperature fluctuations of reefers?

To estimate the power consumption and temperature fluctuations of reefers, we propose to apply agent-based simulation to simulate the stochastic operation process of reefers at the container terminal.

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