

Energy saving and storage measures for computer rooms





Overview

How can I monitor university computer rooms' energy consumption?

The Internet of Things and edge computing energy consumption monitoring systems of university computer rooms can provide data foundations for energy-saving institutions through open application layer user interfaces by analyzing university computer rooms' energy consumption.

What is edge computing in computer room energy consumption monitoring system?

The method and model of edge computing in the computer room energy consumption monitoring system are proposed through research. The monitoring methods of critical parameters such as the computer room's thermal environment and energy consumption are given.

How is power consumption measured in a computer room?

Collecting power consumption data is the precondition for monitoring the energy consumption of the computer room. Conversely, the edge device (gateway) is connected to the intelligent inductance measurement terminal through a 485 bus. This part of communication is based on the Modbus protocol.

How to calculate the total energy consumption of computer room?

As shown in formula (3), the total energy consumption F of the computer room in colleges and universities is composed of the energy consumption of main equipment Q_1 , the energy consumption of air conditioning system Q_2 , the transmission equipment Q_3 , the DC power cabinet Q_4 , and the other equipment Q_5 . (3) $F = Q_1 + Q_2 + Q_3 + Q_4 + Q_5$



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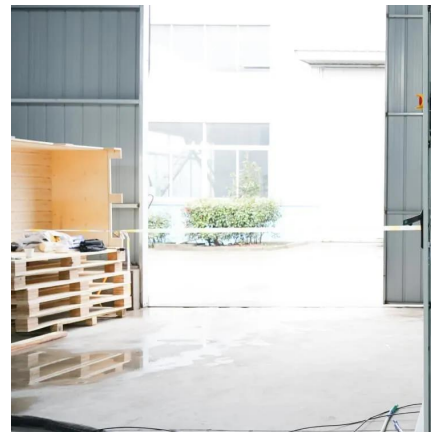


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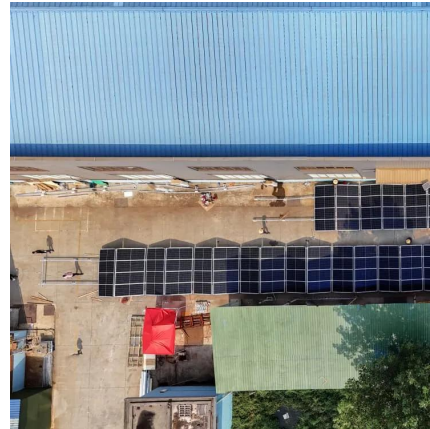


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