

What are industrial energy monitoring solutions?

The industrial energy monitoring solutions in the literature mainly provide the graphical visualization of collected energy meter data, alarms based on threshold events, system reports consisting of dashboards, and features to provide comparative insights.

Can IoT monitor the energy consumption of stationary and mobile industrial processes?

This research presents an edge-assisted IIoT-based system architecture for monitoring the energy consumption of stationary and mobile industrial processes on a manufacturing industry's factory floor with the help of a data processing feature to compute additional energy consumption metrics.

Can IoT monitor the energy consumption of a factory floor?

In this research, we design, develop, and implement an IIoT and edge-based system to monitor the energy consumption of a factory floor's stationary and mobile assets using wireless and wired energy meters.

How can a long-range wireless energy monitoring system work?

Concerning this, the researchers in [1] have presented a LoRa-based long-range wireless energy monitoring system using Arduino controllers and current-voltage sensors for the energy metering nodes and Raspberry for the primary node, which collects the energy consumption data and forwards this information to the cloud.

Can pzem004t monitor the energy consumption of residential houses?

The researchers propose another non-industrial solution in [2] to monitor the energy consumption of residential houses using a low-cost PZEM004T energy monitoring circuit and ESP8266 controller to monitor the energy consumption and along with digital payment of electricity bill based on the RFID-based tag identification approach. 2.1.3.

What are the limitations of energy monitoring solutions?

Since the reviewed energy monitoring solutions are developed for the dedicated purpose of monitoring energy consumption, the primary limits for these systems are standalone operation and the extensive support of features.

A web-based real-time industrial energy monitoring system Abstract: In this paper, an experimental application focused on energy quality observation is developed. The required parameters are obtained from the system by the designed electronical measurement cards and then transferred to the computer.

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