

LARGE-SCALE BUILDING ENERGY METERING SYSTEM

ABSTRACT

The present invention discloses a large-scale building energy metering system, where the system includes a monitoring module and a monitoring platform that includes a transport layer, a data layer, and a service layer, where the monitoring module implements data interaction with the monitoring platform through the transport layer; a data acquisition and processing unit of the data layer periodically obtains, through the transport layer, monitoring data acquired by the monitoring module, and performs multiple screening, filtering, and analysis processing on the monitoring data; an intelligent terminal unit of the data layer obtains an operating status and alarm information of each monitoring device in the monitoring module through the transport layer; an energy consumption monitoring unit of the service layer is configured to perform energy consumption multilevel metering, energy consumption subentry metering, energy statistics collection, and presentation and generation of various energy report forms on processed monitoring data; and a device operation and maintenance unit of the service layer is configured to obtain the operating status and the alarm information of each monitoring device, acquire the alarm information, and provide a notification to a relevant responsible personnel in a timely manner. Therefore, the system provided in the present invention has advantages such as distributed computing and storage for energy data metering, and maintenance of monitoring devices.

Figure 1