



# Energy Management System

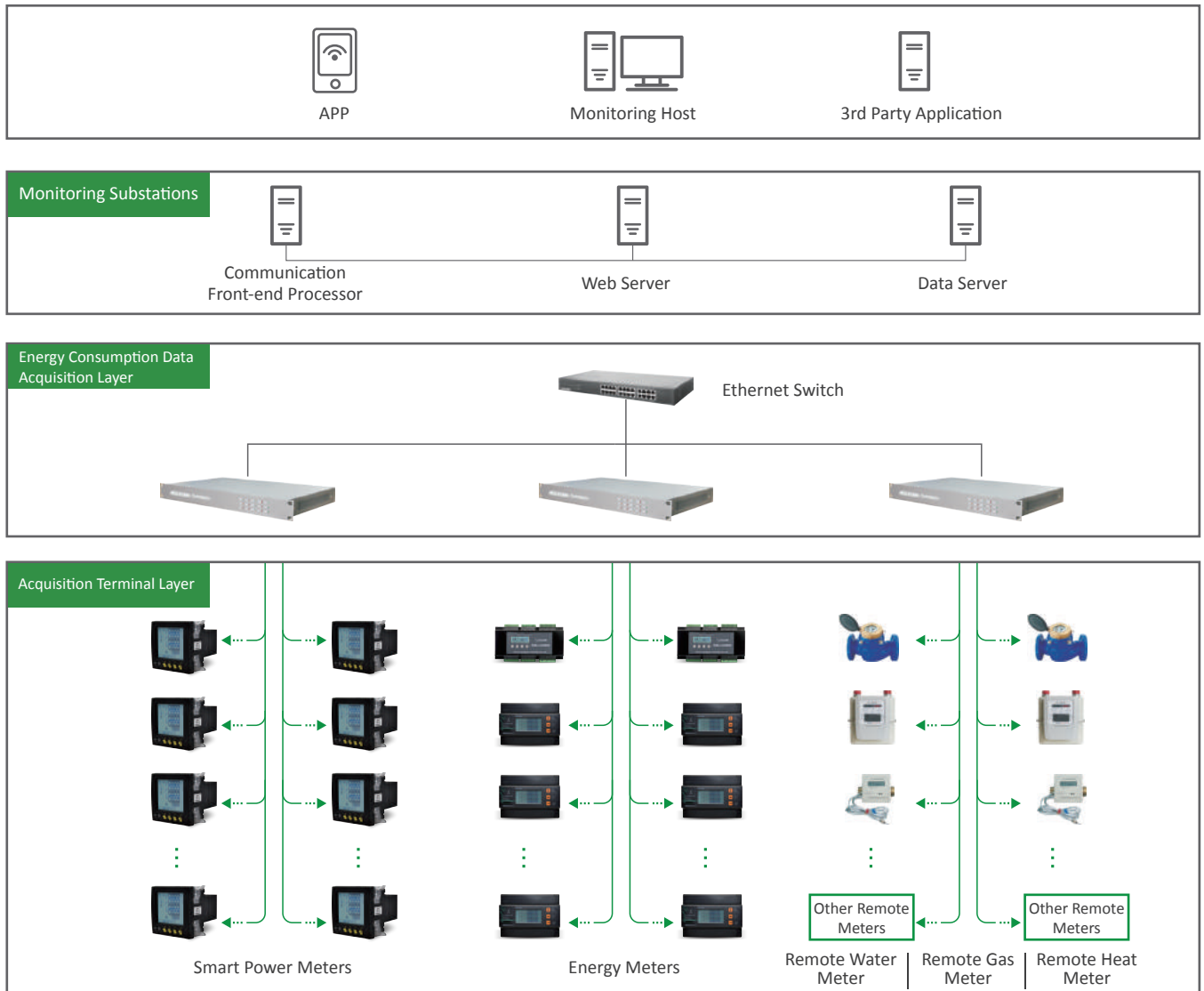
## System Overview

Energy issues have been global concerns. With rapid development of economy, energy demands continue increase. Therefore, most countries put forward clear requirements for energy saving. And energy efficiency solutions have become one focus for almost all industries.

The Energy Management System, developed by Heyuan Intelligence, acquires real-time energy consumption data from the acquisition terminal. And it calculates and stores the data from all sorts(i.e. water, electricity, gas, heating), subareas, sub items and sub time with mathematical method of summarizing and splitting etc. Then checking system, which accurately and quantitatively measures unit energy consumption, can be provided by monitoring and diagnosing the data. Thus energy saving management can be realized.



## System Diagram



## System Function



### System Overview

Total energy consumption, energy consumption data of water, electricity, gas, heating etc. of each subarea, and system alarms can be checked.



### Comparative Analysis

The system can conduct a comparative analysis of energy consumption data of each subarea and a year-on-year and sequential analysis of that of one subarea.



### Energy Consumption Warning

System alarm information, which consists of run-time alarms and energy threshold alarms, can be viewed. Run-time alarms refers to energy using safety alarms, such as over voltage, over current, over load. While energy threshold alarms occur when unit consumption of energy exceeds the set value.



### Real-time Data Analysis

Besides real-time electric parameters of voltage, current, power, frequency and energy etc., other real-time energy consumption parameters of water, heating etc. can be obtained.



### Historical Data Analysis

Energy consumption data and trends of each subarea within any period can be queried.



### Energy Consumption Reports

Daily, monthly and yearly reports of each kind of energy, comprehensive energy consumption reports and energy index accounting reports can be viewed, in order to facilitate the energy consumption management and performance evaluation by administrators.



### Energy Consumption Status

Energy consumption status of each subarea, such as power consumption plans, power usage, remaining power values and proportions of energy consumption can be checked so as to assist users to analyze the status and make better energy arrangements and timely adjustments.



### Real-time Metering

Real-time metering of water, electricity and other energy types can be realized. Also energy consumption data of each energy type within any period can be checked.