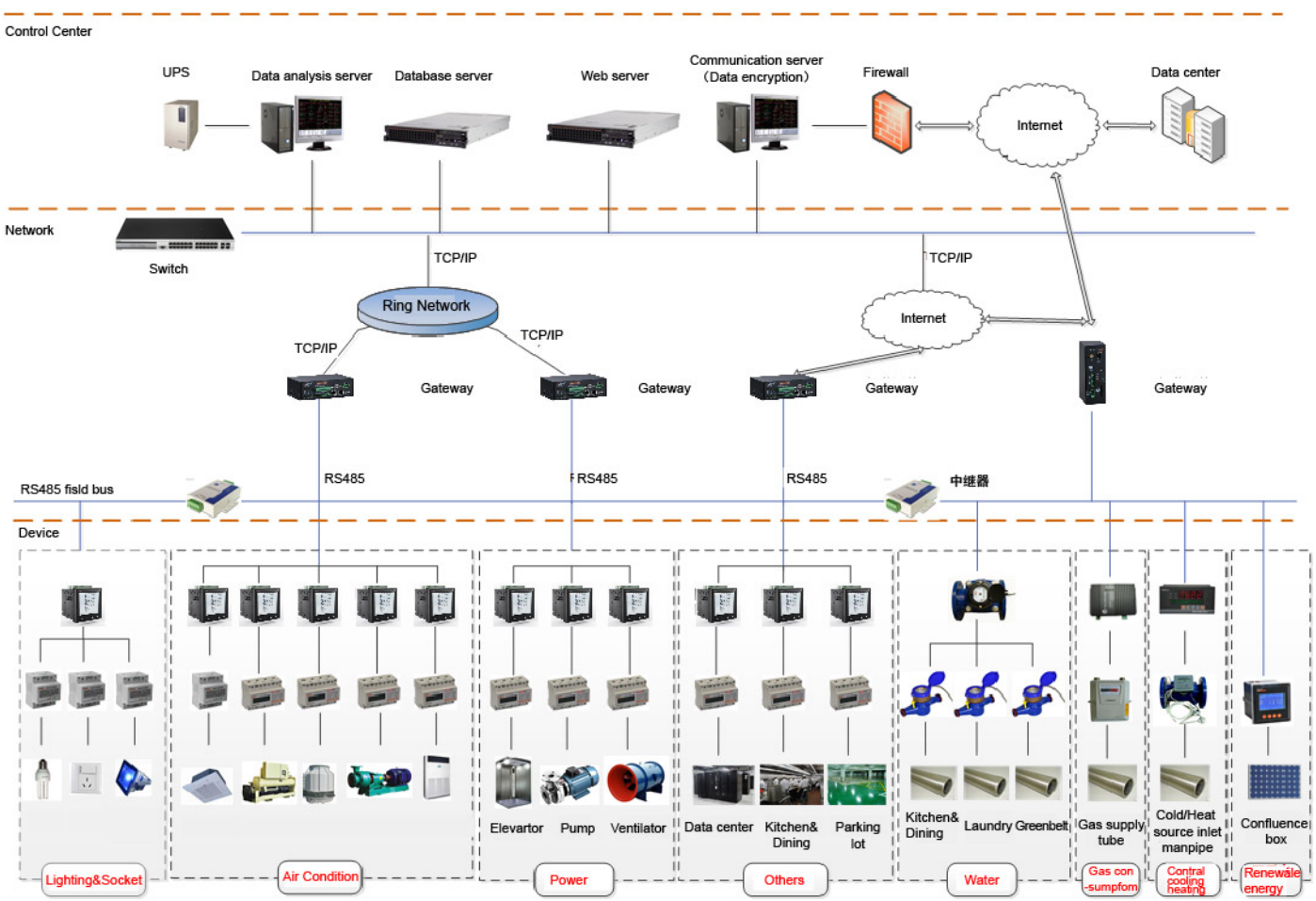
Energy Consumption Monitoring System for Buildings

1.Application

- Office Building
- Commercial Building
- Tourist Building
- Scientific, Educational, Cultural and Healthy Architecture
- Communication Architecture
- Transportation Building

2.Structure



3.Main Functions

Platform Overview

- Build distribution
- Devices state display
- Day&Month trend lines
- Muti energies collection

Circuit Overview

- Single circuit analysis
- Max & Min load rate
- Hour,Day,Month,Year trend
- Day&Month energy consumption compare

Energy Consumption Grid

- Statistics data by hour or day or month
- Convert data to bar chart
- Export data to excel
- Compare selected rows

Parameters History Data

- Display data in line chart and grid
- Support electric,water,gas parameters etc.
- Provide over limit alarm
- Know about equipment operation status

Data Flow Diagram

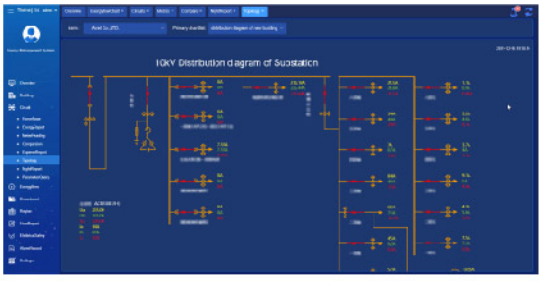
- Analysis of energy efficiency
- Improve energy efficiency
- Reduce management costs

Compare

- Focus on the data change
- Display data in chart and table
- Supplementary means for energy conservation

Primary Circuit Diagram

- Real-time data



4.Product Selection

Application	Type	Functions
High voltage or Low voltage circuit	APM810	Measure all electronic parameters(0.5s),neutral current,unbalance,mean, extremum,2DI+2DO,2-63rd harmonic,RS485(Modbus-RTU).
Low voltage cabinet, Outlet cabinet	AEM96	Three phase electrical parameters measurement(U I P Q PF F) total forward and reverse active energy calculation,forward and reverse reactive energy calculation; 2-31st harmonic,3*1.5(6)A,active energy accuracy : class 0.5s ,reactive accuracy: class 2.

Application	Type	Functions
Power cabinet	AMC96L-E4/KC	Three phase power meter,LCD display,I, U, kW, kvar, kVA, kWh, kvarh, Hz, cosΦ , 4DI2DO,1Ep pluse output 3P3W, 3P4W;230V/400V, 1A/5A.
	ADL3000	7P three phase multi-function energy meter, U I P Q S PF,3*1(6)A or 3*10(80)A,split-phase forward active energy calculation,total forward and reverse active or reactive energy calculation,2-31st harmonic , supporting infrared communication.
Lighting cabinet	ADL3000	7P three phase multi-function energy meter, U I P Q S PF,3*1(6)A or 3*10(80)A,split-phase forward active energy calculation,total forward and reverse active or reactive energy calculation,2-31st harmonic , supporting infrared communication.
	ADL100	2P single phase multi-function energy meter, U I P Q S PF, 10(60)A, single total active energy measure,supporting infrared communication.
	ADL10	1P single phase electric energy meter, U I P Q S PF, 10(60)A, single total active energy measure.
Water supply	Water Meter	Metering the total volume of water flowing through the water supply pipe, suitable for one-way water flow, using electronic direct reading technology, directly outputting data through RS485 bus.