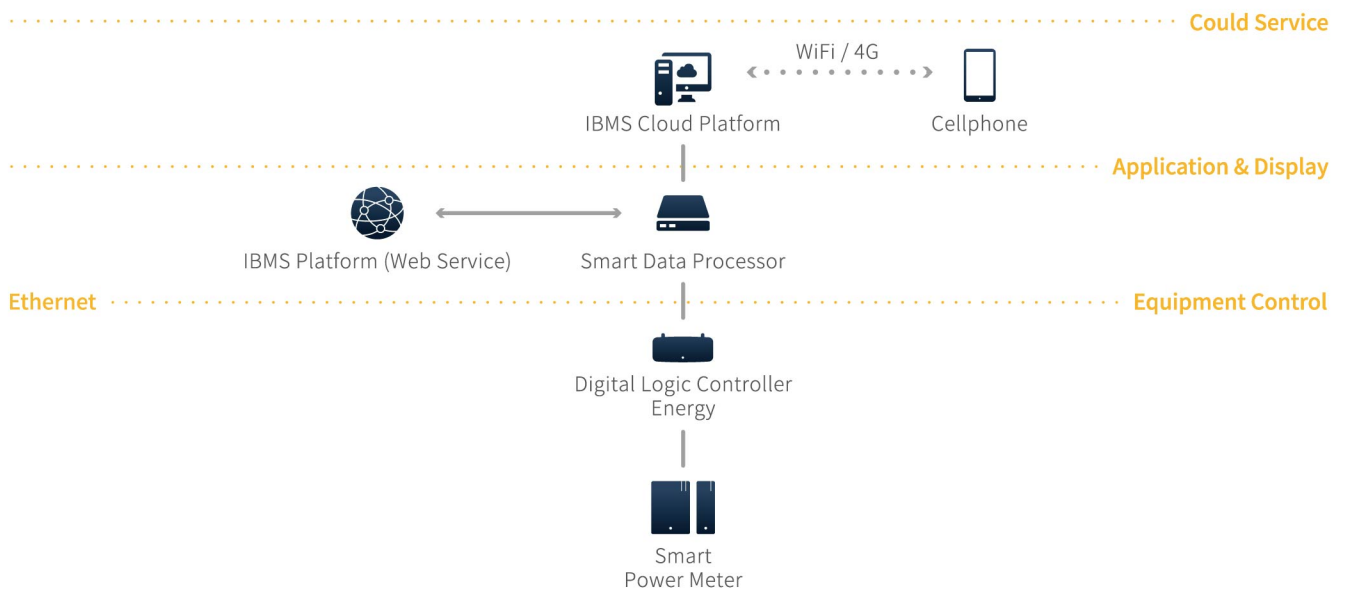# IWA

IWA energy management system uses wireless communication technology for data transmission and establishes a cloud energy management platform to assist you to understand the building power usage and develop appropriate energy-saving strategies simultaneously.
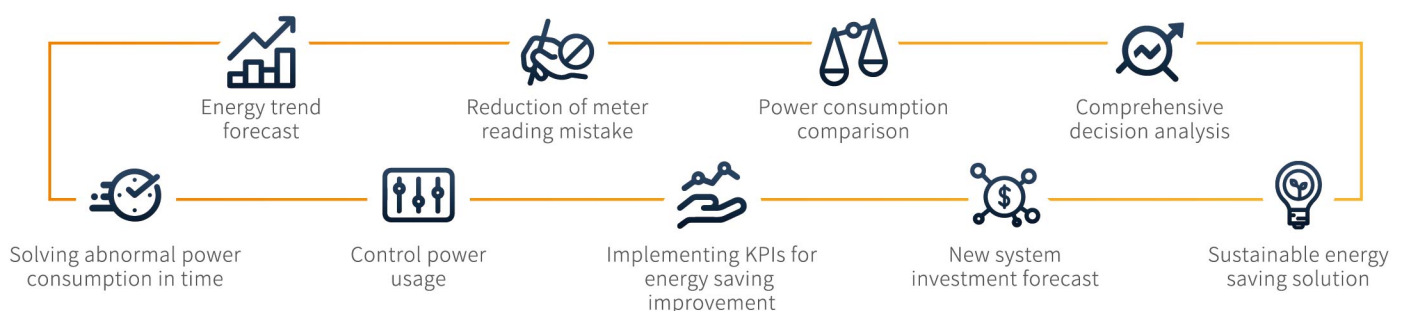
Smart Energy Management System

Structure Diagram

Could Service

WiFi / 4G

IBMS Cloud Platform — Cellphone

Application & Display

IBMS Platform (Web Service) — Smart Data Processor

Ethernet · Equipment Control

Digital Logic Controller Energy

Smart Power Meter

System Features

We provide building equipment efficiency optimization and environmental comfort and convenience maximized. IWA not only enhances comfort but also creates a more energy-efficient living environment to save more 15-35% energy depending on different project.

Energy trend forecast	Reduction of meter reading mistake	Power consumption comparison	Comprehensive decision analysis
Solving abnormal power consumption in time	Control power usage	Implementing KPIs for energy saving improvement	New system investment forecast

Sustainable energy saving solution

■ System Functions

Function		Description	Function		Description
Basic	Power Consumption	Enviroment information and equipment energy consumption index for users and tenants.	**Advanced**	System Efficiency	ISO50001 baseline modeling.
		Environment information, building, and equipment energy consumption data for facility management.			Sub-metering modeling tool.
					Optimal contract capacity calculation.
		Environment information, energy consumption in the whole area, and periodic comparison for mechatronics management.			Equipment scheduling and setting.
					Energy demand-response control.
	Real-Time Alerts	Alerts display.		Sustainable Maintenance	Uploading and filing documents.
					Alert management.
		Alerts data statistics and sheet inquiry.			Text message notification.
					Linkage operation between alert and smart system.
	Historical Power Usage	Analysis of power consumption trend.		Others	Environmental index comparison.
					KPIs for energy-saving improvement.
		Power consumption report.			Electricity charging management.
		Periodic energy index management.			Carbon emission calculation.

■ Product Specifications

Digital Logic Controller - Energy

Dimension (L×W×H)	180×77×30 mm	**Communication port**	USB 2.0(Host)
Power requirement	DC 5V	**Network communication**	RJ-45 x 2, 10 / 100 / 1000 Mbps Ethernet 802.11b / g / n WLAN Bluetooth 4.0
Memory	512MB		
Core processor	Arm Cortex A8 1GHz		

Heavy Electric Management Power Meter

Dimension (L×W×H)	110×83×52 mm	**Input current**	5A (Measurement ratio can be set)
Power	AC 80-264V	**Input voltage**	Phase voltage 80-350 VAC Line voltage 140-600 VAC
Protocol	RS-485 Ethernet		

Heavy Electric Management Extension Module

Dimension (L×W×H)	110×38×52 mm	**Input voltage**	Phase voltage 80-350 VAC Line voltage 140-600 VAC
Input current	5A (Measurement ratio can be set)		

Energy Management Power Meter

Dimension (L×W×H)	110×83×52 mm	**Input current**	CTΦ10mm (60A) CTΦ16mm (100A) CTΦ24mm (200A) CTΦ36mm (300A) CTΦ36mm (400A)
Power	AC 80-264V		
Protocol	RS-485 Etherne		
Input voltage	Phase voltage 80-350 VAC Line voltage 140-600 VAC		

Energy Management Extension Module

Dimension (L×W×H)	110×38×52 mm	**Input current**	CTΦ10mm (60A) CTΦ16mm (100A) CTΦ24mm (200A) CTΦ36mm (300A) CTΦ36mm (400A)
Input voltage	Phase voltage 80-350 VAC Line voltage 140-600 VAC		