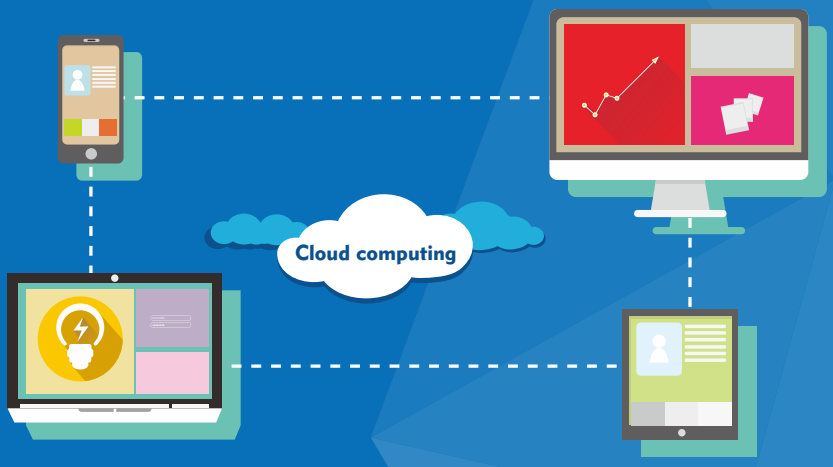
Your Power Management System



3 Tech | OwlEye

OwlEye Smart Control and Monitoring System

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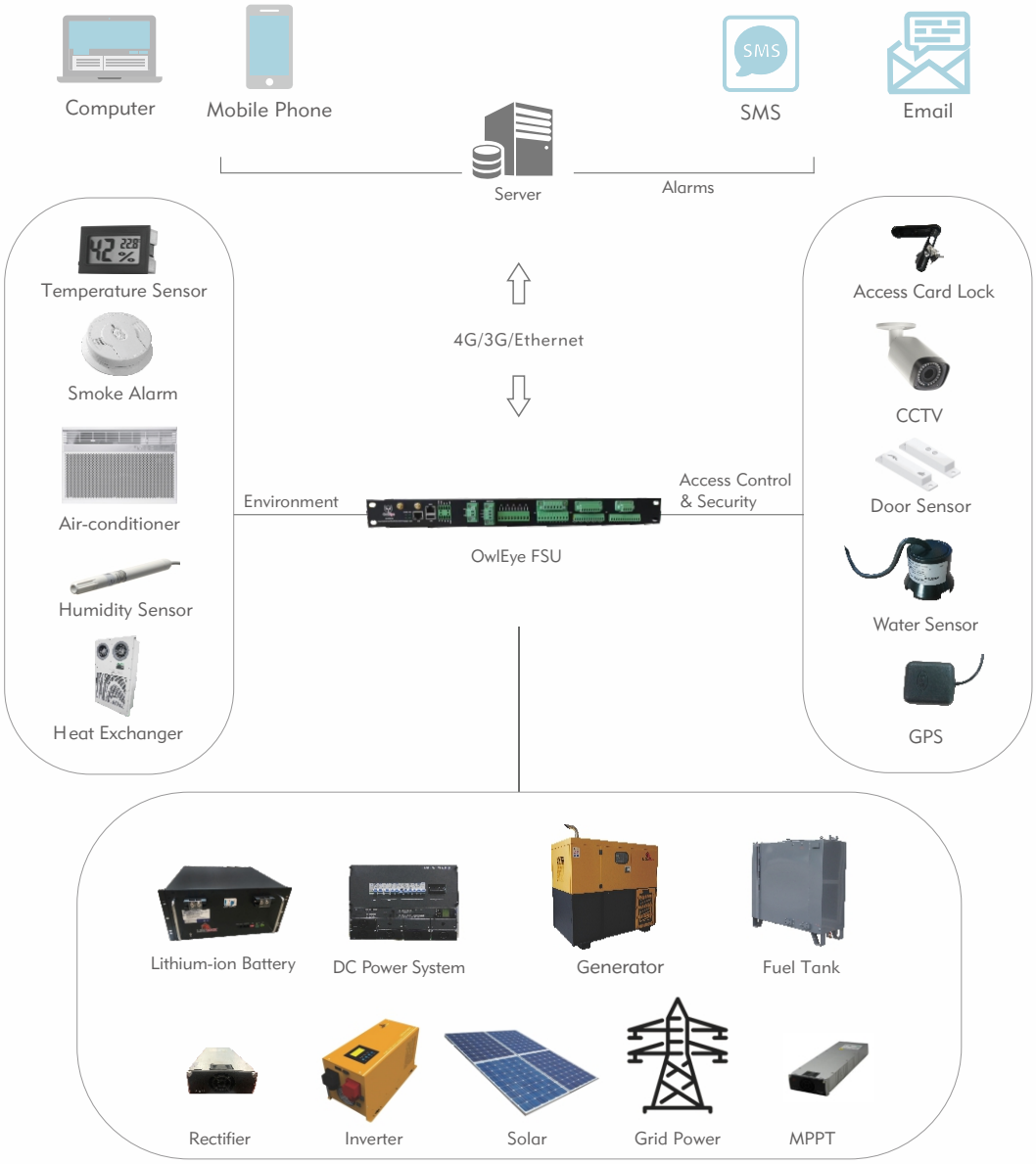


Our OwlEye FSU supports multiple interfaces like RS232, RS485, AI as well as DI etc.

Our modular is designed for remote monitoring and control of equipment at telecom tower site. It's capable of monitoring and controlling all kinds of passive infrastructure devices found at the site including diesel generator set, rectifier, solar panels, air-con, batteries, access control and so on, and supporting data capturing and transmission, camera and control functions. It also features high performance and high extension.

OwlEye FSU

Operating System	Linux 3.2.0
CPU	Cortex A8, 800MHz
SD Card	Support TF storage extension
Rated voltage	IN:DC48V,OUT:DC12V
Temperature	-40°C to 85°C
Relative humidity	5% to 95%
IP rating	IP51
Generic serial communication ports	RS232, RS485 , AI, DI, DO
CAN Interface	CAN 2.0 Interface
Rated Power	10W
Wireless communication on board	4G/3G/GPRS module with external antenna
Wired communication on bard	2 Ethernet Ports
Dimensions	1U, 483*45*230(mm)

OwlEye FSU

OwlEye Smart Control and Monitoring System

3Tech's remote monitoring solution covers two parts, including the hardware OwlEye FSU that functions to fetch and transfer data to our central server, and the software OwlEye Server that brings users a complete visibility of the site while staying in the office.

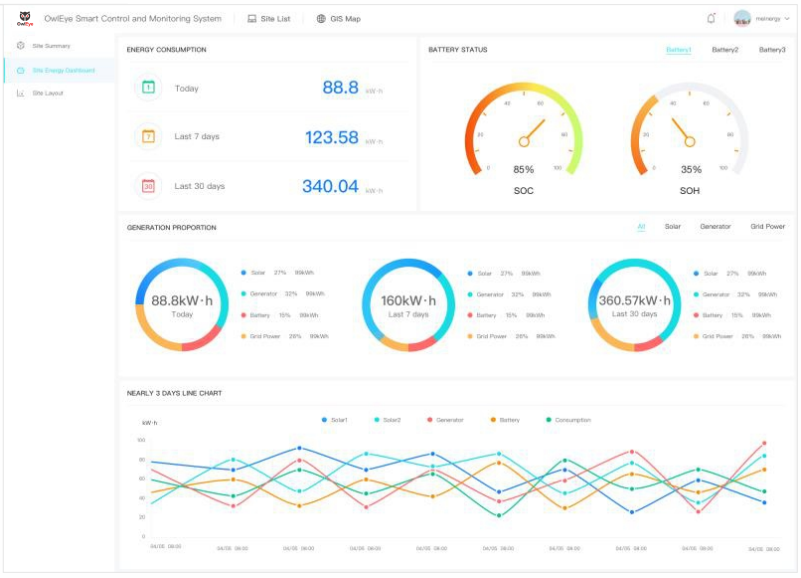
1. **OwlEye FSU-**serves to acquire data from equipment and transfer to our server.
2. **OwlEye Server-**designed to store data in our server, conduct real-time analysis and history trend analysis, multi-dimensional analysis as well, display alerts by SMS and Email notifications and pre-alerts etc. More function and features on our OwlEye server are listed below.

Fault and alarm management
SMS and E-mail notifications
Security management
❍ User Account Management ❍ Network encryption
Performance management
❍ Multi-site dashboard ❍ Real-time monitoring ❍ Data visualization(reports and charts) and analysis, ❍ Operation optimization as well as operation and maintenance, ❍ Support data/report export, ❍ Equipped with GIS (Geographical Information System) and MIS (Management Information System)

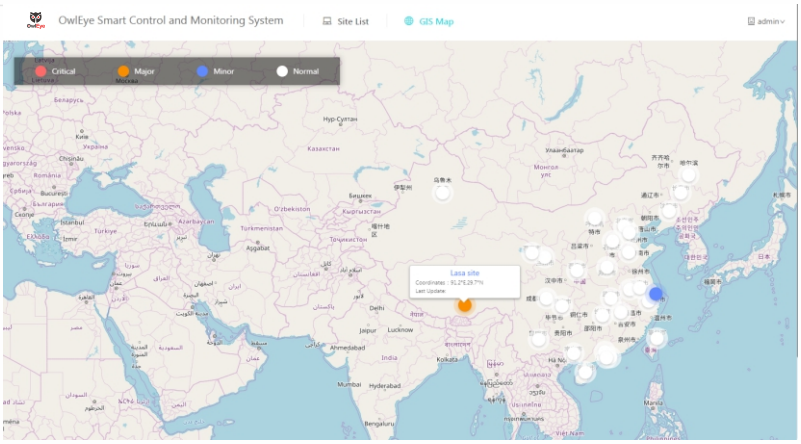
OwlEye Smart Control and Monitoring System

Configuration management	
❍ Able to configure device parameters and information in the system ❍ Support to copy and paste the same information in multi-sites	
Provide both web-based and mobile versions	
Able to be on Cloud or on-premises	
On-premises Software Requirements	
Minimum server configuration	16 Core CPU 64GB ram 500GB SSD/HDD
Recommended server configuration	32 Core CPU 128GB ram 1TB SSD/HDD
Technical Information (based on recommended server configuration)	
Maximum number of sites	5000
High availability percentage	>99%
Maximum number of alarms	15000
Maximum number of real-time events	1500
Maximum number of simultaneous users	100

Data Monitoring

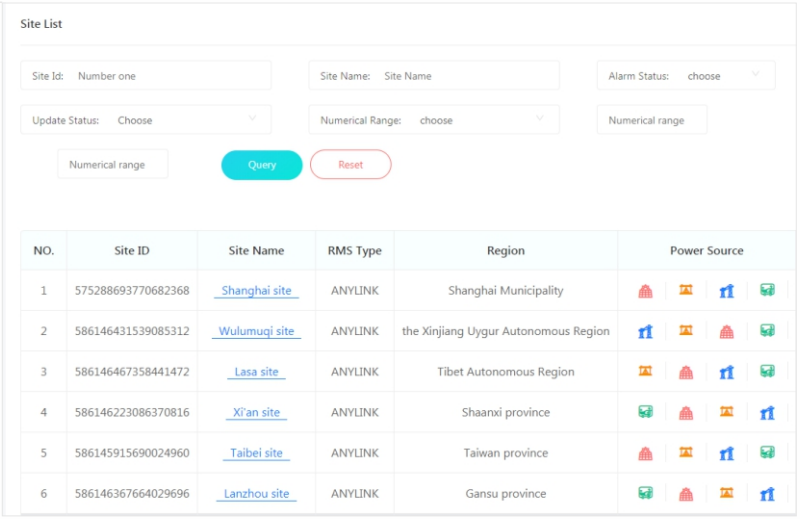


MIS & GIS



OwlEye Smart Control and Monitoring System

Site List



Major Data List

AC Generator	❍ Generator Energy ❍ Coolant Temp ❍ Oil Pressure ❍ Engine Speed ❍ Generator Running Hours ❍ Generator Frequency ❍ Generator Voltage (P-P, P-N) ❍ Generator Current
DC Generator	❍ Generator Energy ❍ Engine Speed ❍ Generator Voltage ❍ Generator Current

Rectifiers (upto 12 maximum per controller)	❍ Output voltage ❍ Output current ❍ Ambient temperature ❍ Output current limit ❍ Overall status
Solar	❍ Solar output voltage ❍ Solar output current ❍ Solar ambient temp
Fuel	❍ Fuel level
Battery	❍ Battery SOC ❍ Battery Voltage ❍ Battery Temperature

Note: additional data monitoring available through continuous development.

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