



Acrel-3000WEB

Power Management System

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Acrel Electric Co., Ltd. (stock code: 300286) was established in 2003. It integrates R&D, production, sales and service. It is a high-tech joint-stock enterprise that provides energy efficiency management and electricity safety solutions for enterprises.

The company has a product ecosystem ranging from cloud platform software to terminal components. At present, there are more than 10,000 sets of system solutions running all over the country, escorting users' efficient and safe energy use. The company deploys sales and technical support teams in major cities across the country to respond quickly to customer needs and provide users with a good service experience.

Business Background



Since industrialization, the global surface temperature has been on an upward trend, which has had a serious impact on the global ecosystem, socio-economic environment and human living environment. In this context, it is imperative to achieve the "dual carbon" goal.



On September 16, 2021, the National Development and Reform Commission issued the "Proposal for Improving the Dual Control System of Energy Consumption Intensity and Total Volume", which provides a more complete indicator setting and decomposition implementation mechanism for the "Dual Control of Energy Consumption", and resolutely controls high energy consumption and high energy consumption. Emission projects, strictly implement the energy-saving review system .



Many provinces and cities have carried out electricity price reforms, and enterprises in many regions have been directly affected by power outages and shut down production, and public facilities in some areas have been shut down.

Solutions

Master the electricity usage

Understand the electricity consumption of floors, areas, and terminal equipment in each period

Improve power supply structure

Access to new energy power supply to cut peaks and fill valleys

Which areas, which devices, and which time periods can be turned off

Create an energy saving plan

Screen out equipment with lower energy efficiency levels for upgrade and replacement

Eliminate outdated equipment

System Meaning



1

Digital Visualization

The system can collect various data of protection devices such as power distribution cabinets and switch cabinets and measurement monitoring devices, and can display the operating status, instantaneous value and historical value of any circuit on the platform interface, so that electricity can be seen.



2

Statistical Analysis of Data

Count the electricity consumption of each circuit and each time period, analyze and predict the trend of each power parameter curve, and automatically generate a comparison and analysis report of the day, month, and year cycle.



3

Develop an implementation plan

Organized and targeted management and control of electricity consumption, eliminate outdated and outdated equipment, connect to new energy power generation, and reasonably improve the power supply structure.

System Advantage

Beautiful interface

- ✓ Overall design
- ✓ Unified style
- ✓ Modern aesthetics

Alarm classification

- ✓ Filter out important information
- ✓ Select a subscription
- ✓ Artificial confirmation

Convenient and extensible networking

- ✓ 485 interface
- ✓ Lora interface
- ✓ Extension module

Easy and flexible deployment

- ✓ One-click deployment
- ✓ Cross-platform
- ✓ Windows
- ✓ Linux

Prefabricated report

- ✓ Prefabricated Standard Reports
- ✓ Export EXCEL

Easy access

- ✓ Browser access
- ✓ Mobile App access
- ✓ Pad access

Stable and reliable data

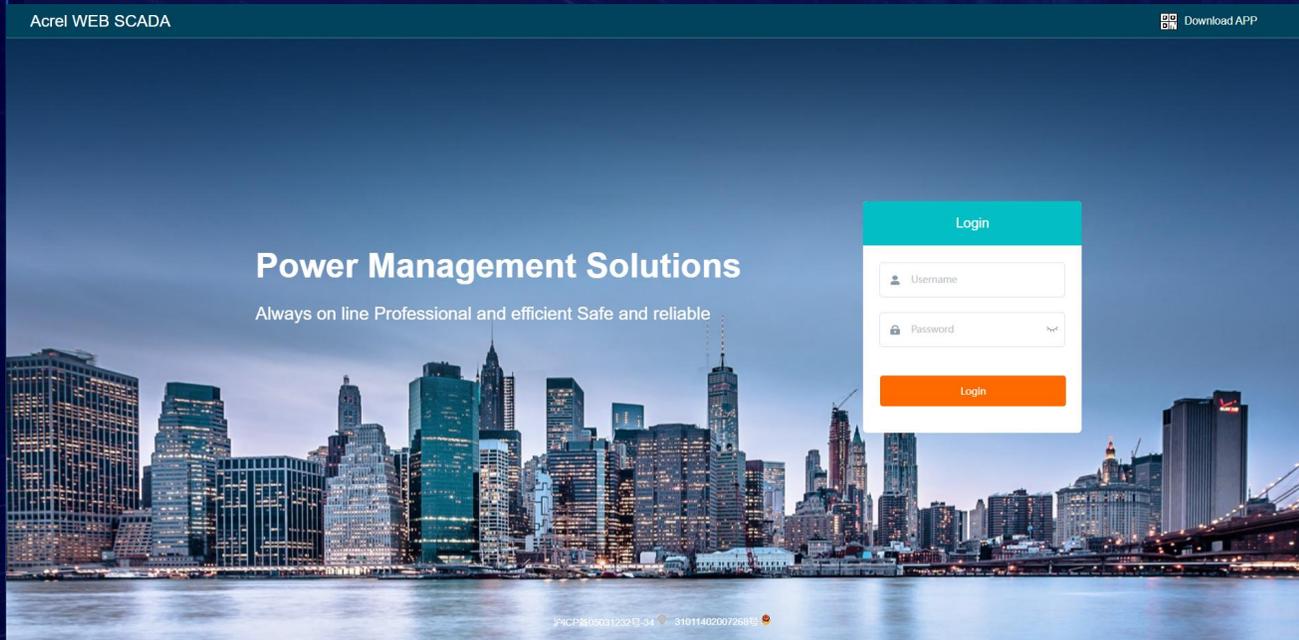
- ✓ Breakpoint continuingly
- ✓ Continuous data
- ✓ Power outage alarm

Open source free

- ✓ Operating system free
- ✓ Database free
- ✓ Other tools are free



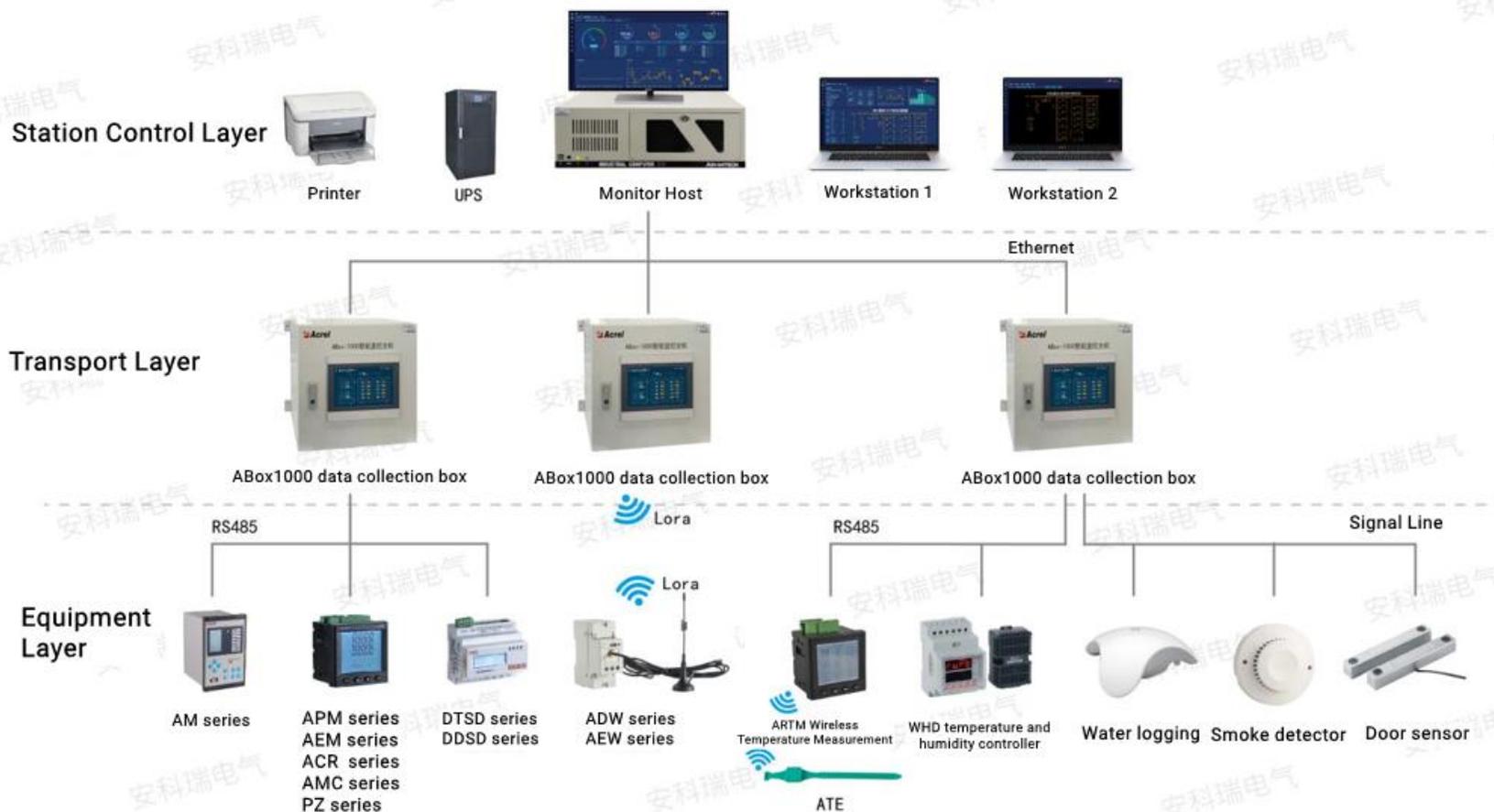
System Introduction



Acrel-3000WEB power management system can collect all kinds of power parameters in the middle and low voltage switch cabinet, floor distribution box, comprehensive protection device installed in the end power cabinet, embedded multi-functional instrument, guideway multi-functional instrument, wireless Internet of things instrument. The system provides real-time online monitoring of power consumption data, fault alarm, remote control, energy consumption statistics, energy efficiency analysis and other functions. It is stable and reliable, easy to access, friendly interface and so on. It can meet the needs of comprehensive power management in various application scenarios of enterprises, hospitals, universities, large public buildings and so on.

System Structure

Acrel-3000WEB Power Management System



Function Overview

Acrel-3000WEB power management system



Main Function

1. Interface configuration

Various real-time monitoring interfaces (such as power transformer and distribution main wiring diagram) can be prepared according to site conditions. Data on the interfaces can be updated in real time to respond to telemetry out-of-limit and telemetry shift.



2. Real-time monitoring

The system can monitor the power consumption parameters of each power distribution loop, main power supply and distribution equipment, key power consumption equipment and main power consumption area in real time.



Main Function

3. Remote control

The system can realize the remote opening and closing control of circuit breakers and switches, and the operation needs two levels of verification to avoid unauthorized or misoperation.



4. Fault alarm

The system can realize the over-limit alarm of all kinds of telemetry values such as overvoltage, undervoltage and overcurrent, as well as the remote signal displacement alarm of switch, water immersion and smoke, and the alarm information can be classified and displayed.

Acrel-3000WEB电能管理系统

变电站名称	设备名称	报警类型分类	事件类型	发生时间	报警描述	确认状态	操作	详情
安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 20:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	主进线柜	断路器报警	正向有功电量超限报警	2021-02-22 20:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	light	断路器报警	开灯报警	2021-02-22 20:12:42	设备1 稳定 (设备) 类型 状态变化	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 19:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	主进线柜	断路器报警	正向有功电量超限报警	2021-02-22 19:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 18:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	主进线柜	断路器报警	正向有功电量超限报警	2021-02-22 18:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 17:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
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安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 16:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	主进线柜	断路器报警	正向有功电量超限报警	2021-02-22 16:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
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安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 14:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	主进线柜	断路器报警	正向有功电量超限报警	2021-02-22 14:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看
安科瑞1楼变电所	光伏变柜	断路器报警	正向有功电量超限报警	2021-02-22 13:20:00	正向有功电量超限报警	未确认	● 🔍 🗑️	查看

共 229 条 100页/页 < 1 2 3 >

Main Function

5. Data query

The system periodically stores all kinds of historical telemetry data such as voltage, current, power, electric energy and harmonics. The data can be queried on any day and displayed in charts and tables. The data can be exported.



6. Statistical analysis

It can perform extreme statistics on telemetry data, and calculate the maximum, minimum, average and occurrence time of voltage, current, power and other electrical parameters by day and month. The daily, monthly and annual electricity consumption of each distribution circuit, distribution area and electrical equipment are counted, and the same monthly analysis is made. According to the peak pinggu statistics of electricity and electricity.

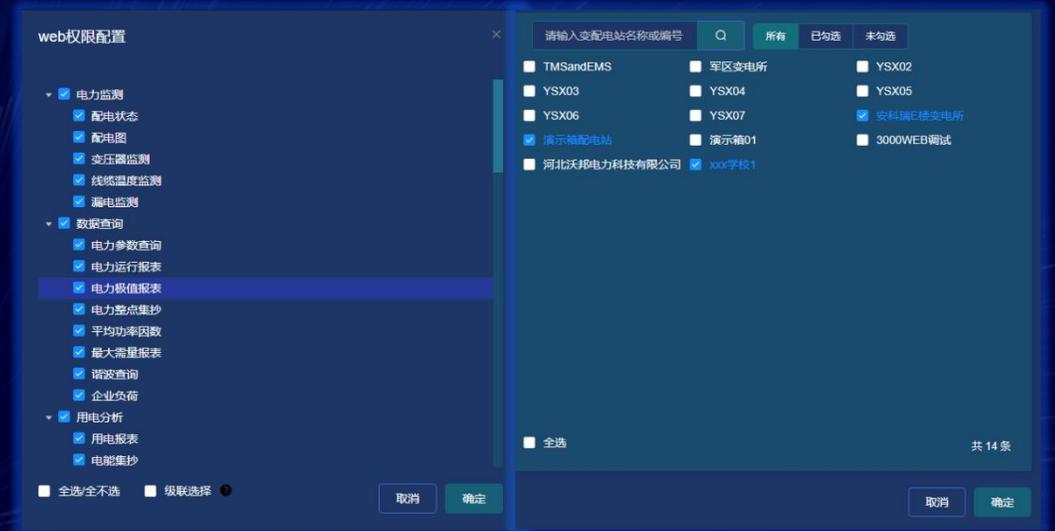
The screenshot shows the 'Acrel-3000WEB电能管理系统' interface with a table of statistical data for the date 2021-02-22. The table is titled '有功功率(kW)' (Active Power) and '无功功率(kVar)' (Reactive Power). The columns include '回路名称' (Circuit Name), '日期' (Date), '最大值' (Maximum), '最小值' (Minimum), '平均值' (Average), and '发生时间' (Occurrence Time) for both active and reactive power. The table lists various distribution circuits and their corresponding power consumption statistics.

回路名称	日期	有功功率(kW)		平均值	无功功率(kVar)		电压(kV)		平均值	最大值	最小值	平均值	最大值				
		数值	发生时间		数值	发生时间	数值	发生时间						数值	发生时间		
主进线柜	2021-02-22	208.00	08:30	45.14	12:27	103.37	48.68	02:53	-1.58	20.21	20.81	212.61	08:30	45.02	12:27	106.12	1
地源热泵	2021-02-22	138.33	08:33	30.97	07:47	61.11	92.15	08:17	8.84	08:05	44.41	165.86	08:18	32.2	08:01	76.81	0.96
电容柜	2021-02-22	0.5	10:32	0.2	01:32	0.35	04	01:03	-37.9	05:04	-8.97	28.7	02:58	-35.5	15:41	17.8	0.05
新增分	2021-02-22	72.2	08:50	8.4	11:38	38.83	0	09:47	-15.5	20:22	-7.76	78.6	08:51	26.2	07:31	45.47	0.98
一层北	2021-02-22	15.8	13:09	7.5	01:35	10.78	3.2	09:38	-3.3	10:16	0.22	15.9	13:09	7.8	01:30	11.02	0.92
二层北	2021-02-22	15.7	11:16	1.3	00:01	3.86	-1	00:34	-1.8	16:28	-1.34	16.4	11:16	2	00:01	4.99	0.99
三层北	2021-02-22	17.7	14:20	1.7	01:30	5.09	-1.1	00:44	-2.5	08:48	-1.78	19.1	14:20	2.1	00:17	6.97	0.97
四层北	2021-02-22	5.4	13:39	0.8	06:50	1.97	-0.7	01:25	-1.1	09:08	-0.89	5.8	13:39	1.3	06:50	2.68	0.94
五层北	2021-02-22	10.4	13:05	1.4	00:02	3.74	-1.2	00:54	-2.2	10:25	-1.82	11.8	13:05	2.3	00:06	4.95	0.92
六层北	2021-02-22	15.8	14:05	0.5	06:55	1.27	0.6	14:05	0	00:00	0.02	16.6	14:05	0.7	00:00	1.44	0.95
一层南	2021-02-22	2.3	18:30	0	00:00	0.64	0.9	20:14	-3.9	17:03	-3.3	3	18:15	0.6	00:00	1.32	0.77
二层南	2021-02-22	15.7	08:18	-0.57	12:40	-3.26	0	12:51	-2.9	17:50	-1.79	26.1	12:40	2.6	07:02	8.86	0.99
三层南	2021-02-22	27.3	08:47	1.3	01:15	4.86	-0.2	11:55	-1.7	09:29	-1.21	28	08:47	1.9	00:19	6.05	0.99
四层南	2021-02-22	6.5	18:48	1.1	07:17	1.55	-0.3	08:46	-0.9	18:39	-0.47	6.9	18:48	1.6	09:57	2.04	0.95
五层南	2021-02-22	4.9	17:21	0.3	00:25	0.89	0.2	10:15	-0.5	08:07	-0.22	5.1	17:21	0.5	08:55	0.93	0.98

Main Function

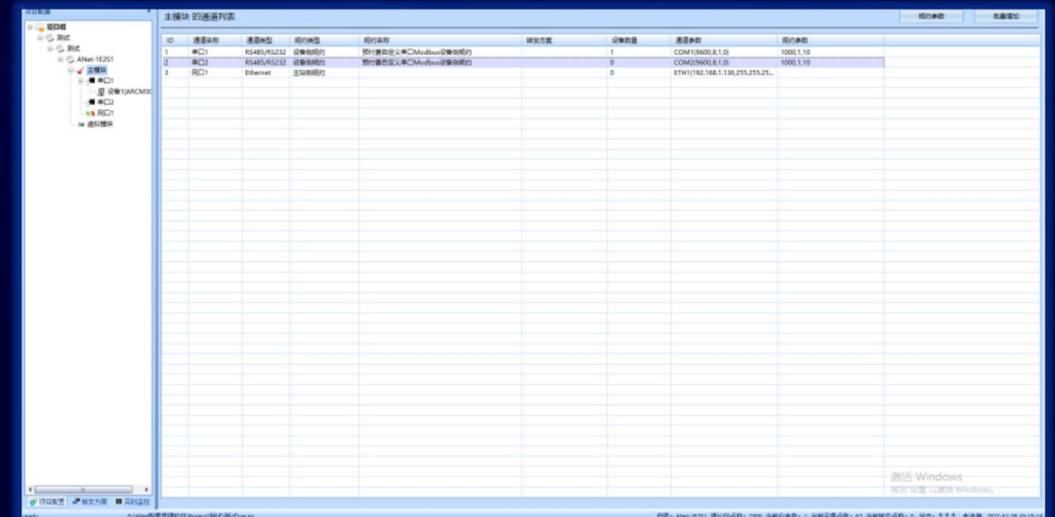
7. Access control

Batch grant menu permissions based on roles, which can allocate accessible substations according to users, so that users can only access the data of specified substations.



8. Data forwarding

Data can be forwarded to third-party systems through modbus-TCP, 104, MQTT and other protocols.



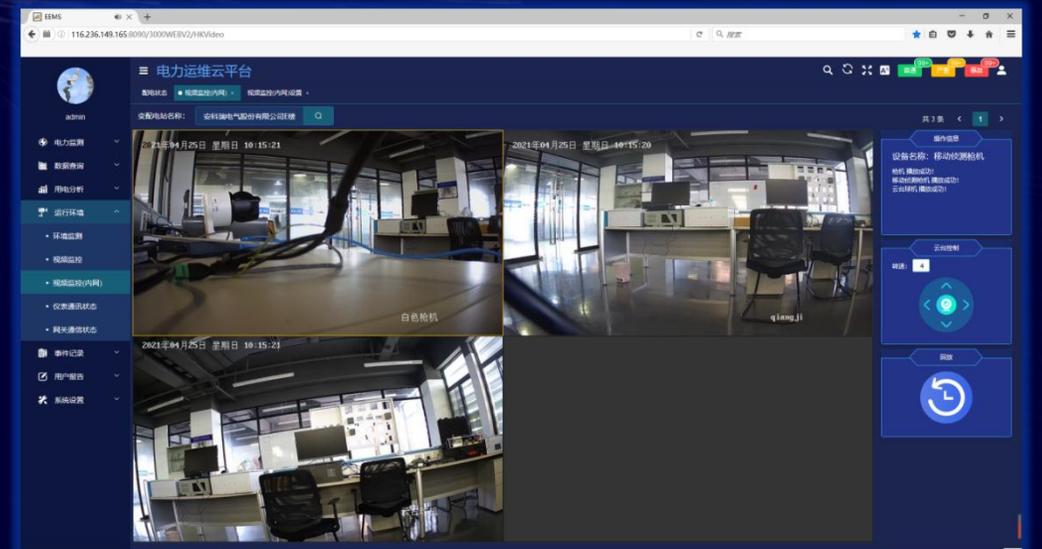
Main Function

9. Video monitoring

Support fluorite cloud, Le Orange Cloud video access
(through the Internet)

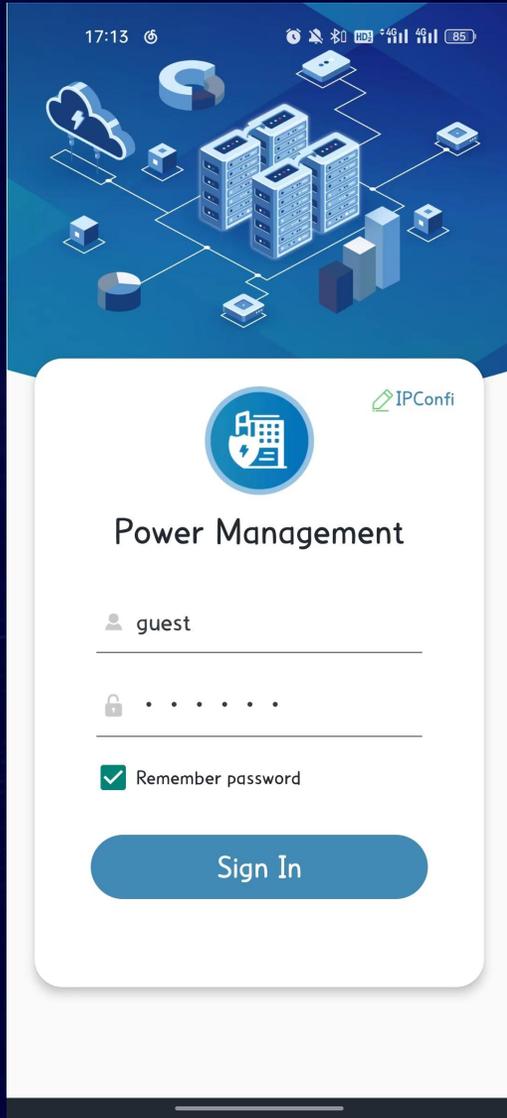
Hikvision camera can be directly connected to the platform
(through the Intranet)

Both can be connected to the camera or hard disk video
recorder, camera live broadcast, playback and control.

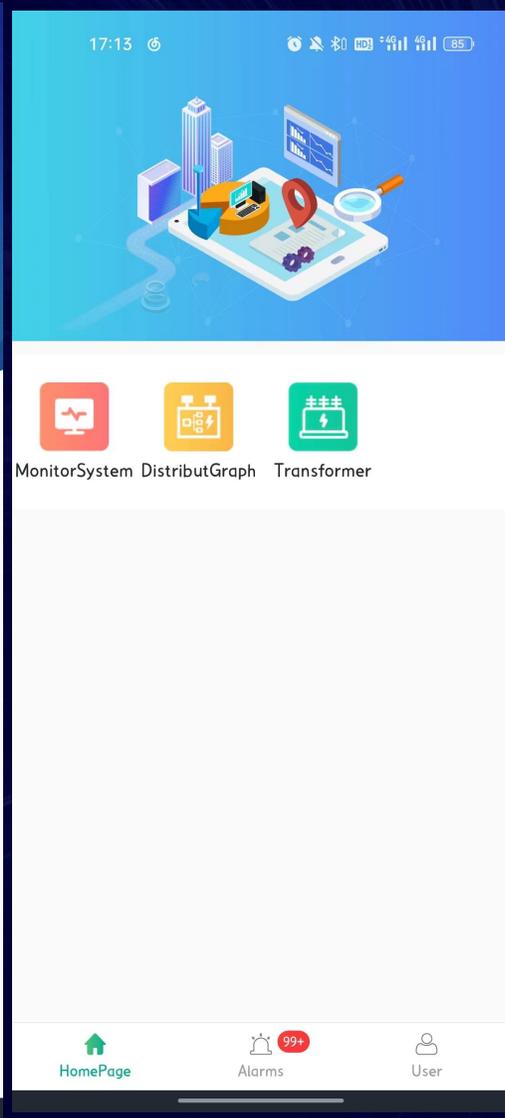


APP Function

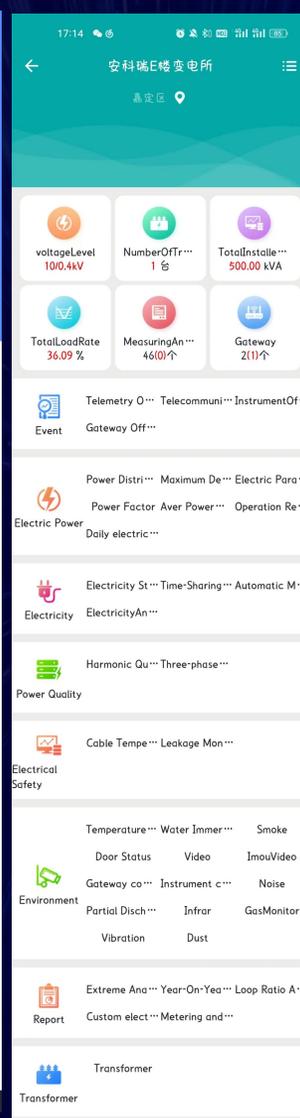
Login



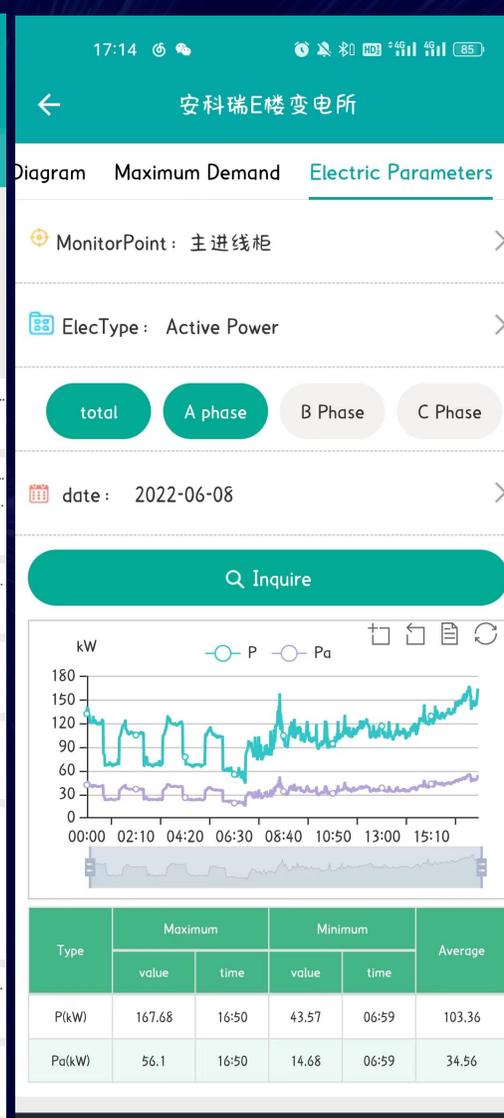
Home Page



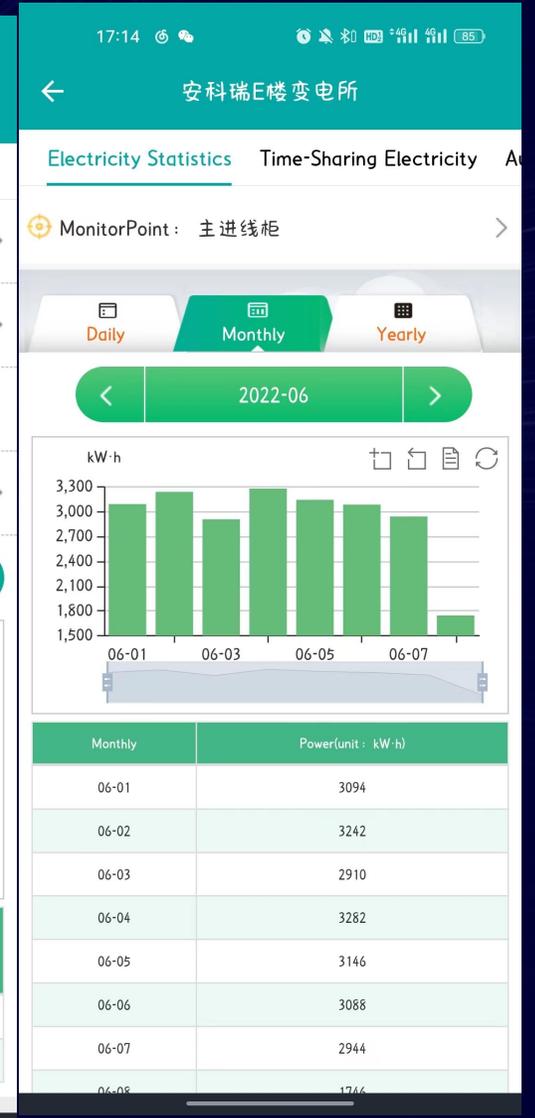
Monitor the home page



Power monitoring

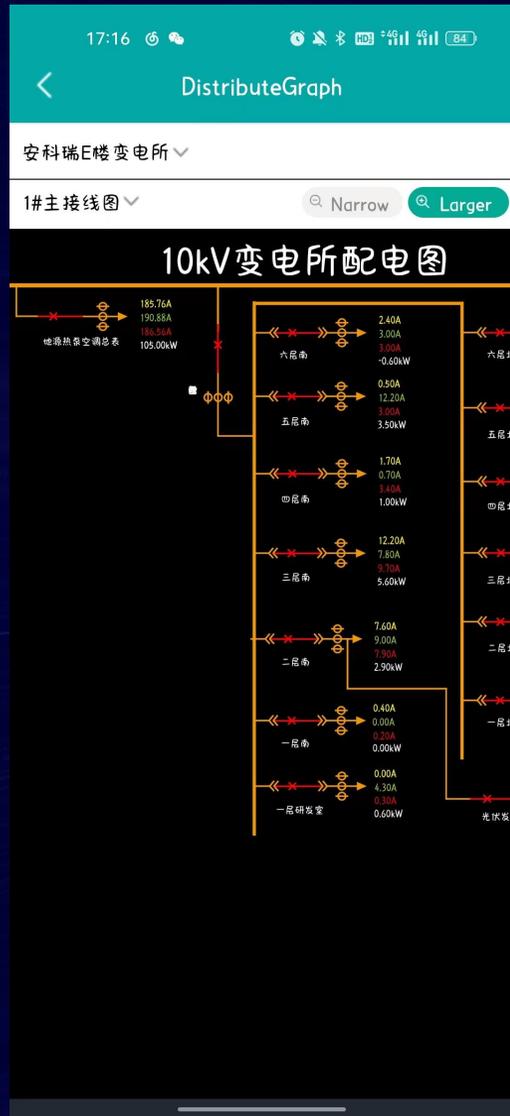


Electricity statistics



APP Function

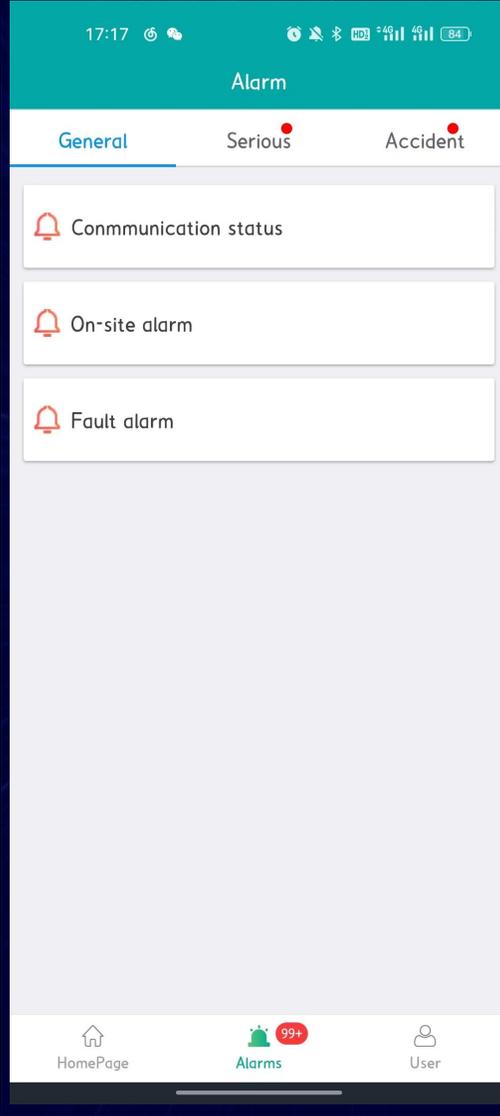
Configuration power distribution diagram



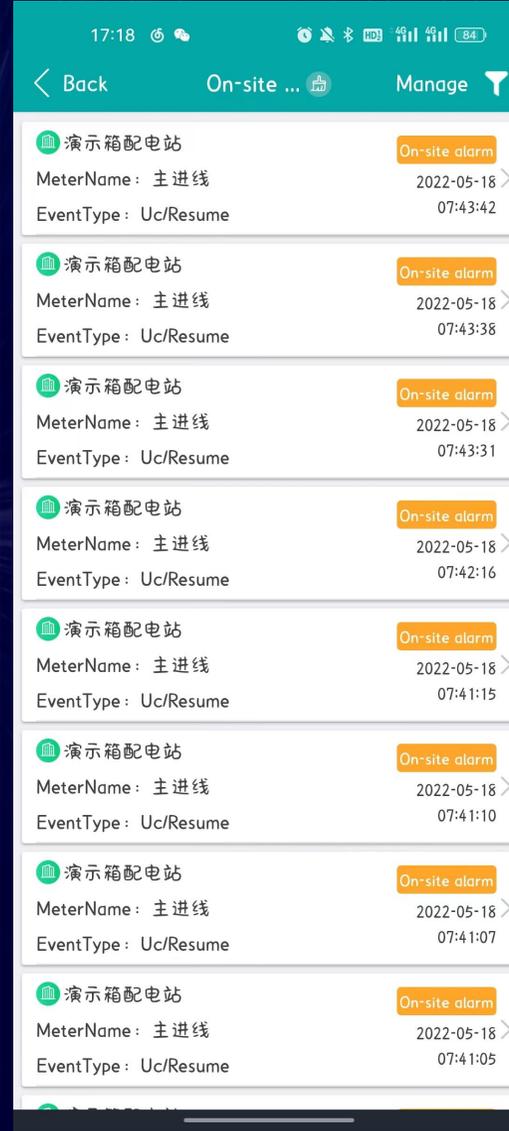
Transformer



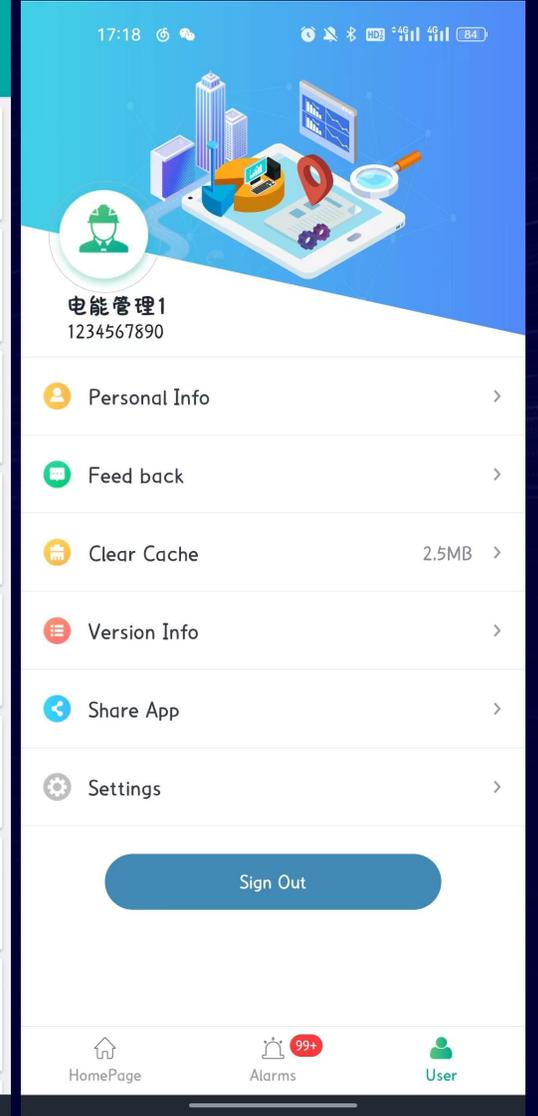
Alarm home page



Alarm list



User page



Typical Hardware

ANet Gateway (Monolithic)



Powerful computing power

- High-performance 32-bit ARM processor
- 64M/256M running memory
- Supports up to 20,000 data points



Powerful storage capacity

- 128M/256M electronic hard disk
- Maximum support 32G external memory card expansion
- Supports resuming transmission after power failure, and data is stored locally after network interruption
- Up to 1 month of local data storage



Various communication interfaces

- Optional 1/2/4/8 serial ports
- Optional Lora receiver module
- Optional 4G upload module
- One/two 10M/100M Ethernet ports



Various communication protocols

- Support dozens of protocols such as Modbus/645/103/104/CJT188/OPC UA/BACnet-IP/SNMP/MQTT/WEBSERVICE/61850/Ministry of Housing and Urban-rural Development
- Supports on-site configuration, and can be connected to various equipment such as electricity meters, water meters, gas meters, flow meters, etc. without secondary development



Stronger security

- Support AES data encryption
- Support MD5 authentication
- Support VPN networking



More stable operation

- Embedded Linux operating system
- Metal housing, rail mounting
- Power consumption<10W
- EMC level 4
- Serial port, network port optocoupler isolation
- Communication terminal 2kV power frequency withstand voltage test
- 20℃~+55℃ operation temperature
- AC/DC220V(85~265V)



ANet Communication Management Machine

- Facilitate later expansion
- Strong performance, reduce server pressure
- Support protocol enrichment
- Multi-platform forwarding
- Linkage control
- Breakpoint continuingly

ANet Gateway (Modular)



Powerful computing power

- High-performance 32-bit ARM processor
- 256M running memory
- Embedded Linux operating system
- Supports up to 20,000 data points



Powerful storage capacity

- 256M electronic hard disk
- Maximum support for 32G external memory card expansion
- Support breakpoint resuming, data local storage after network interruption
- Up to 1 month of local data storage



Powerful expansion ability

- Main module + optional expansion sub-module
- Main module with 4 serial ports
- Main module with 8 DI
- Optional Lora receiver module
- Optional serial port expansion module, supports up to 16 serial ports
- Optional 4G upload expansion module
- Optional WIFI receiving expansion module
- Two 10M/100M Ethernet ports



Various communication protocols

- Support dozens of protocols such as Modbus/645/103/104/CJT188/OPC UA/BACnet-IP/SNMP/MQTT/WEBSERVICE/61850/Ministry of Housing and Urban-rural Development
- Supports on-site configuration, and can be connected to various equipment such as electricity meters, water meters, gas meters, flow meters, etc. without secondary development



Stronger security

- Support AES data encryption
- Support MD5 authentication
- Support VPN networking
- Hardware encryption



More stable operation

- Embedded Linux operating system
- Plastic housing, rail mounting
- Power consumption<10W
- EMC level 4
- Serial port, network port optocoupler isolation
- Communication terminal 2kV power frequency withstand voltage test
- 20℃~+50℃ operation temperature
- AC/DC220V(85~265V)



Typical Hardware

APM810 intelligent monitoring meter



Harmonic analysis up to 63 times, electric energy measurement accuracy up to 0.5s, support for voltage deviation, voltage swell and sag, and wave recording. Installed in the two-way 10kV mains incoming line of the energy center, it monitors the voltage harmonic distortion rate and the current harmonic content rate of each station online to meet the user's harmonic monitoring and static power quality assessment.

Main Feature:

Real-time monitoring: current, voltage, frequency, power factor, active power, reactive power, apparent power

Electric energy metering: four-quadrant active energy, reactive energy, apparent energy

Pulse output: active and reactive energy pulse output

Demand monitoring: real-time demand, maximum demand for active, reactive, and apparent power

Power quality: voltage, current unbalance, harmonic distortion rate, 2~63 harmonic content rate

Data recording: voltage, current, power maximum, minimum statistics, sequential event recording

Open in and open out: Standard 2-way digital input (optional 8-way), 2-way digital output

Communication: RS485 interface, MODBUS-RTU communication protocol, Ethernet port optional

Display: LCD

Installation method: embedded

Installation location: switch cabinet, power distribution cabinet

Usage: power quality, power metering

Typical Hardware

DTSD1352 Rail type meter



This series of products is small in size and can be installed on rails. It can measure electric energy and other electric parameters, and can set parameters such as clock and tariff period. High precision, good reliability, and performance indicators meet the technical requirements of the national standard GB/T17215-2002, GB/T17883-1999 and the power industry standard DL/T614-2007 for electric energy meters.

Technical Parameter		Model		
		DDS1352	DDSD1352	DTSD1352
Voltage Input	Rated voltage	220V		3×57.7/100V 3×220/380V 3×100V 3×380V
	Reference frequency	50Hz		
	Power consumption	<10VA (single phase)		
Current	Input current	10 (60) A	10 (60) A 、 20 (100) A (-CT)	3×1(6)A、3×1(6)A(-CT)、3×10(80)A 3×10(100)A(-CT)
	Starting current	0.004Ib		direct access: 0.004Ib Access via transformer: 0.001In
	Power consumption	<4VA (Single circuit rated current)		<1VA(Single circuit rated current)
Measuring performance	Standards compliant	GB/T 17215. 321-2008		GB/T 17215. 322-2008
	Active energy accuracy	1 class		0.5S class
Pulse	Pulse Width	80 ± 20ms		
	Pulse constant	3200 imp/kWh	1600 imp/kWh 800 imp/kWh	400 imp/kWh 6400 imp/kWh
Communication	Infrared communication	None		1200 baud rate, even parity
	Interface	RS485 (A+, B-)		
Technical Parameter		Model		
		DDS1352	DDSD1352	DTSD1352
Communication	Medium	Shielded twisted pair		
	Protocol	MODBUS-RTU和DL/T645		
Shape size	Length* Width* Height (mm)	18×88×70	36×88×70	127×88×70
Environment	Temperature	Operating temperature: -25℃~55℃ Storage temperature: -40℃~70℃		
	Humidity	≤95% (no condensation)		
	Altitude	<2000m		

Typical Case

Henan XX Lithium Battery Co., Ltd. specializes in the research and development, production, sales and application of lithium-ion power batteries. The division has 8 distribution cabinets with more than 100 points. The problems encountered are as follows:

1. The device status cannot be monitored in real time, nor can the power data be obtained in real time.

2. At present, the manual meter reading method is used, and there are many switch cabinets. It takes at least half a day to read the meter once, which is labor-intensive and time-consuming, and is prone to errors, and the accuracy of the data cannot be guaranteed.



Project Background

3. The meter reading time is 0:00 every day, and the meter reading time of the power distribution room and the local cabinet is 9:00. There is a time difference, and it is impossible to accurately grasp the operation of the equipment.

4. Data management is not centralized, and it is impossible to statistically analyze the energy consumption of each workshop, so that energy saving and consumption reduction cannot be better. A set of power background monitoring and metering fee control system is urgently needed.

Typical Case



Client Demand

1. Monitor each switch signal, the voltage fluctuation needs to be alarmed, the alarm occurs after the remote signal is displaced, and the alarm can be manually eliminated after recovery.

2. Monitor the voltage and current of each circuit breaker, calculate the power information in real time, and obtain the power related data of time, day, month and year.

3. Data persistent storage for more than 3 years.

4. The software is concise and generous, highlighting key points, and viewing different permission pages according to levels and positions.

5. The page has electrical distribution diagrams, real-time data of electric meters, details of electric energy data, statistics and historical data, alarm information, switch status and other pictures.

Typical Case



1. Hardware Installation

Adopt our ANet-2E4S1 gateway and ADW400 instrument.

2. Power Monitoring

Dynamic real-time monitoring of various power parameters and switch states on the primary power distribution diagram.

3. Data set copy

Collect and copy the various power parameters of each point regularly.

4. Customize the electricity consumption classification report

The electric energy is integrated and calculated according to the workshop and the points and processes.

5. Fault alarm

The abnormality or failure can be responded in time, and the alarm can be eliminated manually.

6. Energy Efficiency Analysis

The power data is analyzed year-on-year and chain-on-month to achieve the effect of energy saving and efficiency improvement.

Typical Case



Project Value

1. Centralized and orderly power management, more convenient

2. Intelligent automatic meter reading to reduce labor costs

3. Real-time monitoring of equipment operation status, quicker understanding of on-site situation changes

4. Know the equipment abnormality and failure in time, and reduce the electrical failure rate

5. Analysis of energy consumption data, knowing the energy consumption distribution of each time period and each module, so as to effectively manage and achieve the purpose of energy saving and efficiency improvement

Large Projects

Guangxi Duba Expressway

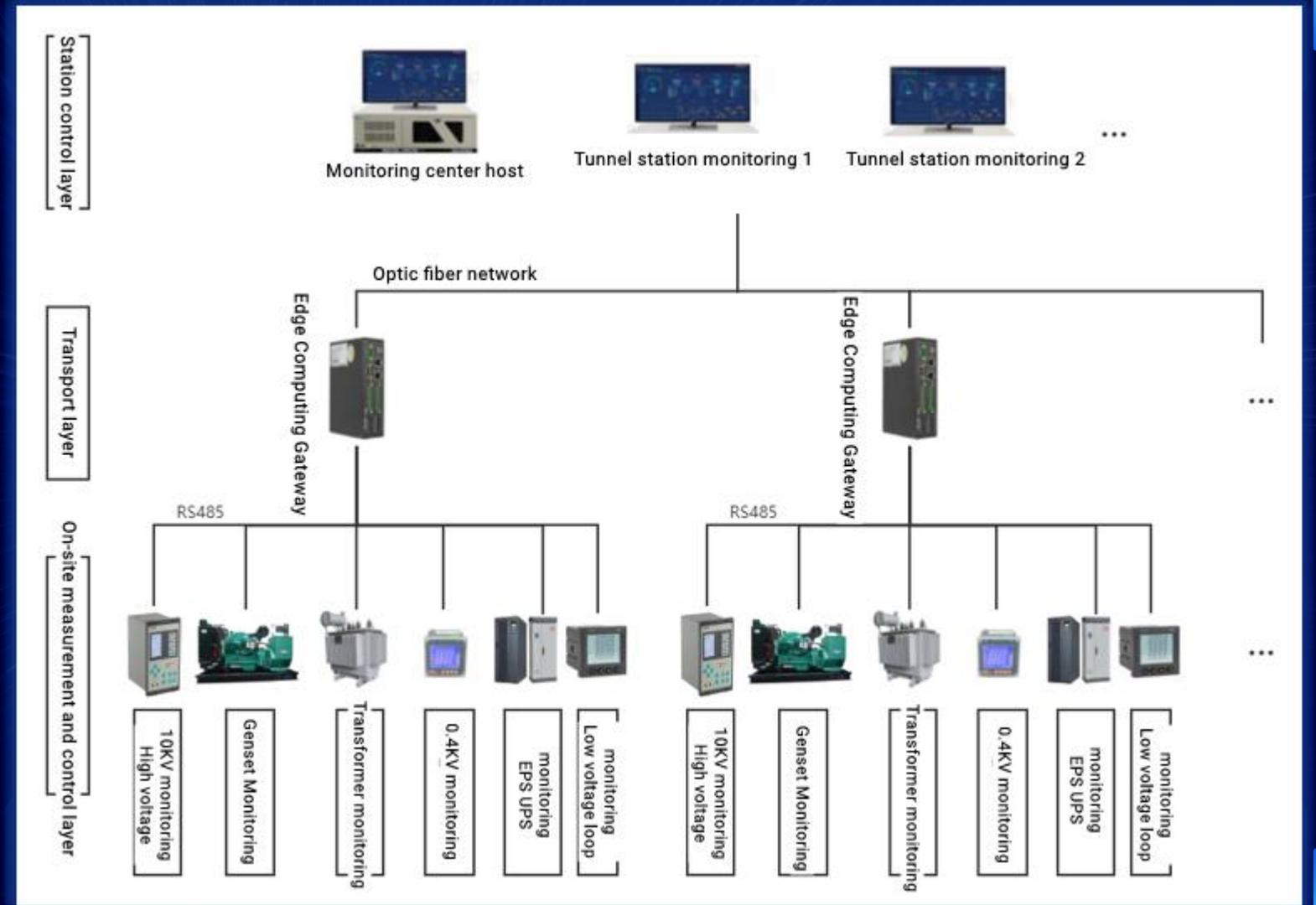
The project is 120 kilometers long, with 32 tunnels, 4 service areas, 5 toll stations, a total of 59 power distribution rooms, 2,814 devices, and more than 100,000 data points. It adopts ANet communication management meter to collect data and upload to Acrel-3000WEB power management system.



Large Projects

System Structure

A set of platform software is deployed in the monitoring center, and the data of 59 stations are uploaded to the platform in a centralized manner. In multiple tunnel management stations, the browser can be used to directly access the platform by entering the access address.



Large Projects

Project scale

Acquisition equipments **2900+**

Distribution charts **467**

Parameter types **300+**

Alarm types **1000+**

Data points **10W+**

Platform scale

ANet-2E8S1 Communication management meters	60
Integrated protective devices AM4-I	154
AM5-B	17
Reactive power compensation controllers ARC-8	92
Multifunction meters PZ96L-E4/HKC	92
AMC72L-E4/KC	2311
EPS	59
UPS	59
Transformer temperature controllers	92
Generator controllers	59

Field scale

Large Projects

Scenes



Large Projects

Debugging



Large Projects

Platforms



Large Projects

Training delivery



Large Projects

Project characteristics



The highway is long and narrow,
The distribution distance of
substation is very far;

There are many types and quantities of
monitoring devices, including high and
low voltage power distribution
equipment, generators, transformers,
UPS, EPS, lighting and so on.



There are many transformer and
distribution stations, including tunnels, toll
stations, service areas and box transformer
substations along the line.



Large Projects

Project value



Unattended, automatic management

Real-time distributed monitoring and centralized management of substations and equipment to realize unattended operation, improve automation management level, and reduce operation and maintenance costs of electromechanical equipment.



Understand operation, energy saving and emission reduction

Timely access to the operation of on-site equipment, statistical analysis of energy consumption, so as to effectively manage and formulate energy saving plans and measures.



Reduce hidden trouble, stable operation

The potential electrical hazards and anomalies can feed back alarms in real time, and the inspection personnel can know and deal with them in time, so as to reduce the electrical failure rate, ensure the stable operation of power supply and distribution system, and ensure the stable operation of expressway communication, toll collection and monitoring system.

Other Cases



Enterprises

- Shanghai Fusuke Industry
- Machinery Industry Sixth Design Institute
- Suzhou Huayan Aerospace Electric
- Vitality Forest Drink



Buildings

- Shanghai Compulsory Medical Center
- Yichang Real Estate Investment Building
- Jincang Wenhua Building



Large public buildings

- Liunan Expressway
- Guizhou Jade Expressway
- Chongqing Banan to Qijiang highway



Data center

- Guizhou GUI'an China
- Mobile phase ii

Q&A

1、 Can it be embedded or connected to other third party platforms?

Answer : Yes, it is acceptable to provide technical documentation for the unified login authentication interface.

2、 Can it be connect to other third-party devices?

Answer : Yes, any standard protocol (Modbus) can be accessed, but in addition to the basic parameters maintained by the platform, other additional parameters of third-party devices only support one-time graph display and alarm, and there is no historical data query function.

3、 What factors affect the real-time change rate of data?

Answer : It is related to the amount of meter access and parameter collection. The more the number, the slower the change.

Q&A

4、 Can APP functions be used for localized deployments?

Answer : Yes, the server needs to fix the intranet IP, then the mobile terminal device is connected to the local area network WIFI, open the APP, enter the server intranet IP and account password, and then it can be used. However, the APP alarm function is affected by the network environment. If the server network can access the external network, the APP alarm can be supported, otherwise it is not supported.

5、 Can SMS notification be used in localized deployments?

Answer : If the server network can access the external network, you can use the Jiguang, Alibaba Cloud, and Tencent Cloud SMS solutions; if you can only access the internal network, you can only use the SMS cat solution.

Access Method



Website: <http://ems.acrelcloud.cn>

Account: guest

Password: 123456





THANKS

Power Management System