

Wisdom Energy Management System

User Manual V1.1

Henan Compere Smart Technology Co., Ltd.

Content

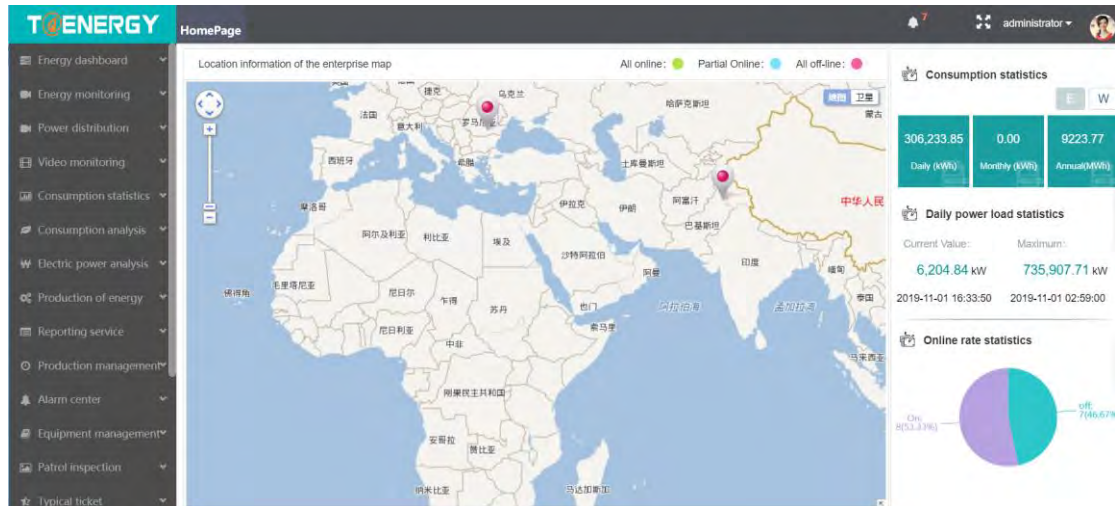
Homepage	4
1 Energy board	4
1 Energy board	4
2 Energy monitoring	5
2.1 Real-time data (signal)	5
2.2 Real-time data (minute level)	5
2.3 Real-time data (second level)	6
2.4 Historical data (event)	6
2.5 Historical data (minute level)	7
2.6 Historical data (second level)	7
2.7 Historical data report	8
2.8 Power distribution diagram	8
2.9 Daily/Monthly frozen data	9
2.10 Statistical analysis report	9
2.10.1 Equipment failure report	9
2.10.2 Equipment start-stop report	10
2.10.3 Equipment running time report	10
2.11 Historical curve (minutes)	11
2.12 Historical curve (seconds)	11
3. Power Distribution	12
3.1 Power distribution diagram	12
3.2 Data collection	12
3.2.1 Real-time data (signal)	12
3.2.2 Real-time data (minutes)	13
Query data of equipment items in the enterprise	13
3.2.3 Real-time data (seconds)	14
Query data of equipment items in the enterprise	14
3.2.4 Historical data (minutes)	14
3.2.5 Historical data (seconds)	14
4 Video monitoring	15
5 Energy consumption statistics	15
5.1 Department energy consumption	15
5.2 Sub-item energy consumption	16
5.3 Energy consumption rank	16
6 Energy consumption analysis	17
6.1 Enterprise energy consumption analysis	17
6.2 Departmental energy consumption analysis	19
6.3 Equipment energy consumption analysis	20
6.4 Comprehensive analysis of energy indicators	22
6.4.1 Energy and charge analysis	22

6.4.2 Load characteristic analysis	23
6.4.3 Tariff period analysis	24
6.4.4 Power factor analysis	25
7 Electric Power Analysis	26
7.1 Equipment energy analysis.....	26
7.2 Load characteristic analysis	27
7.3 Electricity price period analysis	27
7.4 Harmonic analysis.....	27
8 Production energy management	28
8.1 Process management	28
8.2 Production management.....	30
8.2.1 Product category subpage	30
8.2.2 Product management subpage.....	31
8.3 Production management.....	31
8.4 Unit consumption index setting	32
8.5 Department process unit consumption statistics	33
8.6 Product unit consumption statistics.....	34
9 Report service	35
9.1 Electricity	35
9.1.1 Daily report	35
9.1.2 Monthly report	36
9.1.3 Annual report.....	36
9.1.4 Quarterly report.....	37
9.2 Peak valley flat.....	37
9.2.1 Daily report (peak valley flat)	37
9.2.2 Monthly report (peak valley flat)	37
9.2.3 Annual report (peak valley flat)	38
9.3 Statistical report	38
9.3.1 Hourly report.....	38
9.3.2 Daily report	39
9.3.3 Weekly report.....	39
9.3.4 Monthly report	39
9.3.5 Quarterly report.....	40
9.3.6 Annual report.....	40
9.3.7 Settlement report	41
10 Alarm center.....	42
10.1 Telemetry over-limit alarm.....	42
10.2 Switch status change alarm	43
10.3 Operation and maintenance alarm.....	44
10.4 Fault alarm	44
10.5 Historical event alarm	46
10.6 Device over limit setting	47
11 System Management	48
11.1 Module management	48

11.2 SMS management (the abnormal information of the assigned device is sent to the specified user)	50
11.3 User Management	51
11.4 Role management.....	55
11.5 Dictionary management (need to be used with other modules)	57
11.6 Drawing component	57
11.7 System Configuration.....	58
11.7.1 Enterprise Profile.....	58
11.7.2 Concentrator	58
11.7.3 Monitoring positions	60
11.7.4 Price management	64
11.7.5 Monitoring point data item.....	66
11.7.6 Drawing management	68
11.7.7 Product classification management	70
11.7.8 Remote parameter setting.....	71
11.7.9 Fault type template	71
12 Operation controlling	72
12.1 Operation log.....	72
12.2 Gateway online management	73
12.3 Front-end machine operation monitoring.....	73
12.4 Acquisition integrity.....	74
12.5 Access number	74
12.6 Operation management	75
12.7 Scheduling Tasks.....	76
13 My concerning	77

Homepage

After entering the account password to log in, the home page is automatically loaded and displayed as follows:



In the above taskbar, from left to right are the current module name, alarm flag, and current login account information. Click the alarm flag to view the specific alarm information.

①Map: The map on the left side of the interface will display the location information of the company. At the same time, the online status of the current enterprise concentrator will be displayed on the map.

②Energy consumption statistics: Select the type of energy to be viewed, and then you can view the total energy consumption of the company in the current account, day, month and year.

③Load Statistics: The real-time and maximum values of the currently selected energy type are displayed.

④Online rate statistics: display the current concentrator online status of the enterprise, click on the pie chart to jump to view the details.

1Energy board

1Energy board

In this module, you can view the corresponding data by selecting the enterprise and energy type.

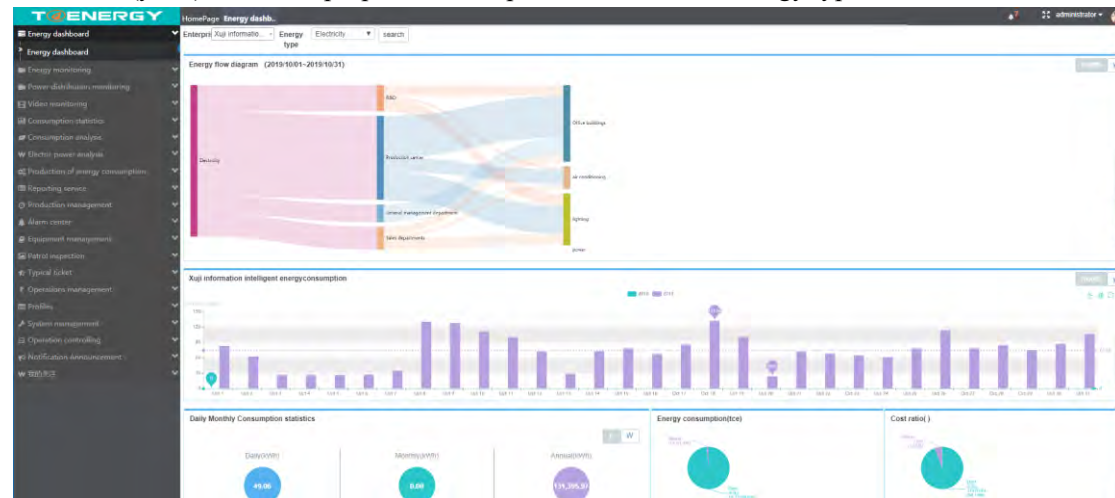
In the module of energy flow diagram and company energy consumption, you can switch the year and month to view the corresponding data.

In the energy flow diagram: you can click on different properties and view the corresponding data in the histogram below.

Daily/month/year energy consumption statistics: show the total energy consumption of the current day, the current month

Proportion of energy consumption of the standard (tons of standard coal): The ratio of the energy consumption currently used to the weight of coal consumed.

Cost ratio (yuan): View the proportion of expenses for different energy types.



2Energy monitoring

2.1Real-time data (signal)

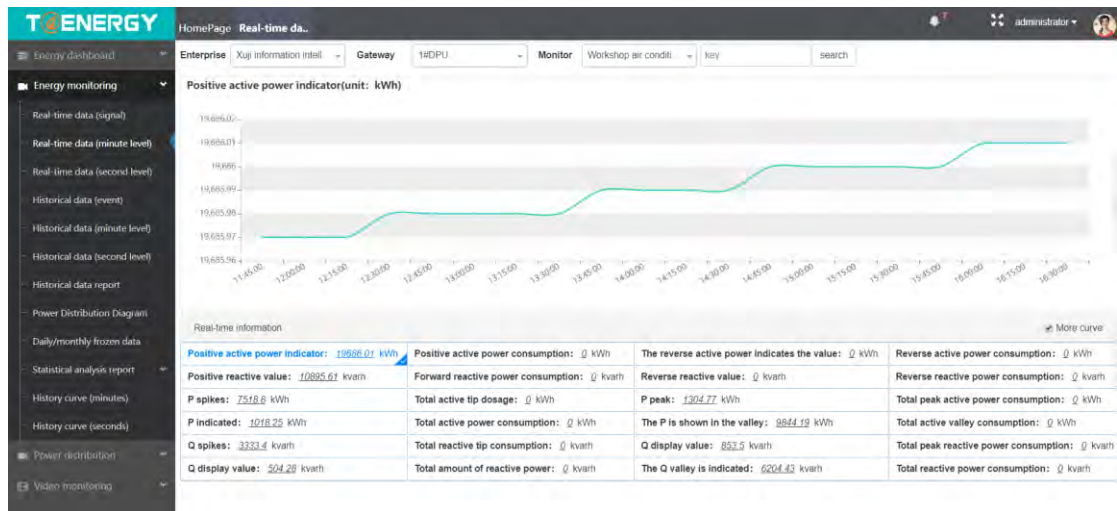
Query real-time data of devices in the enterprise, including: event type, acquisition date, data item description, alarm value, set value, and remarks.

The screenshot shows the 'Real-time data' monitoring interface. It includes a sidebar with navigation options like 'Real-time data (signal)', 'Real-time data (minute level)', 'Real-time data (second level)', 'Historical data (event)', 'Historical data (minute level)', 'Historical data (second level)', 'Historical data report', 'Power Distribution Diagram', and 'Daily/monthly frozen data'. The main area displays a table of real-time data events.

Number	Event type	Acquisition date	Data item description	Alarm value	Set value	Note
1	The more limited	2019-07-09 16:13:28	B相电压越上限值	217.1	50	UBS
2	The more limited	2019-07-09 16:12:26	B相电压越上限值	220.1	50	UBS
3	The more limited	2019-07-09 16:11:24	B相电压越上限值	219.1	50	UBS
4	The more limited	2019-07-09 16:10:21	B相电压越上限值	220.3	50	UBS
5	The more limited	2019-07-09 16:09:20	B相电压越上限值	219.1	50	UBS
6	The more limited	2019-07-09 16:08:18	B相电压越上限值	220.4	50	UBS
7	The more limited	2019-07-09 16:07:16	B相电压越上限值	217.6	50	UBS
8	The more limited	2019-07-09 16:06:14	B相电压越上限值	218.9	50	UBS
9	The more limited	2019-07-09 16:05:12	B相电压越上限值	219.8	50	UBS
10	The more limited	2019-07-09 16:04:10	B相电压越上限值	219.7	50	UBS
11	The more limited	2019-07-09 16:03:08	B相电压越上限值	221.9	50	UBS
12	The more limited	2019-07-09 16:01:04	B相电压越上限值	222.5	50	UBS

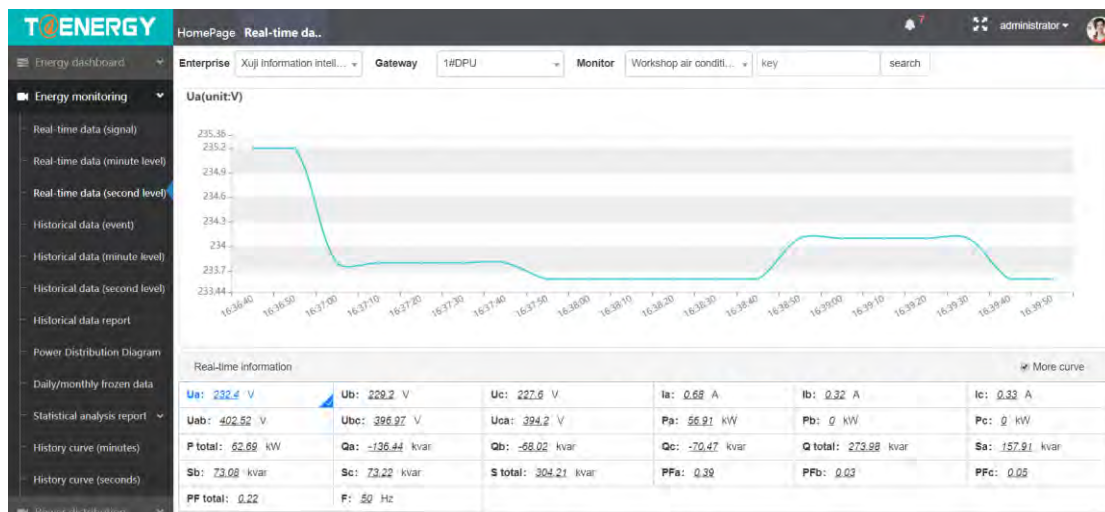
2.2 Real-time data (minute level)

Query the data of the equipment items in the enterprise, and select the data items of the equipment to be viewed according to the following real-time information (Note: the data items of the equipment may be different).



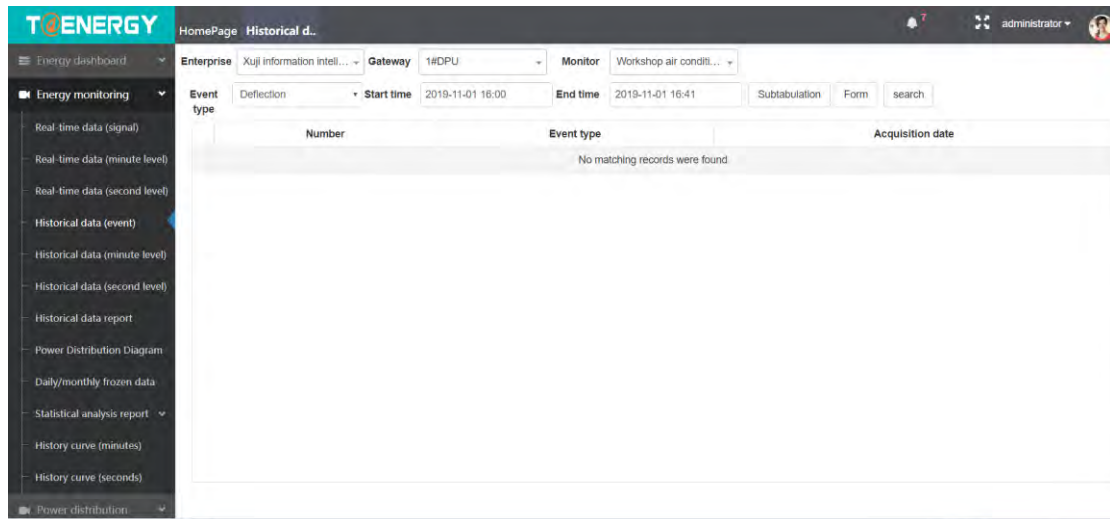
2.3 Real-time data (second level)

Query the data of the device data items in the enterprise, and select the data items of the device to be viewed according to the following real-time information (Note: the data items of the device may be different)



2.4 Historical data (event)

Select the device and event type and then find the corresponding data



2.5 Historical data (minute level)

Query historical data according to the selected conditions, including: acquisition date, positive active value, positive active usage, positive reactive value, positive reactive power, reverse active value, reverse active usage, reverse Indicates the value of reactive power, reverse reactive power, and operation.

number	Acquisition date	Positive active power indicator	Positive active power consumption	The reverse active power indicates the value	Reverse active power consumption	Pos
1	2019-11-01 00:00:00	19685.86	0	0	0	
2	2019-11-01 00:15:00	19685.87	0.01	0	0	
3	2019-11-01 00:30:00	19685.87	0	0	0	
4	2019-11-01 00:45:00	19685.87	0	0	0	
5	2019-11-01 01:00:00	19685.87	0	0	0	
6	2019-11-01 01:15:00	19685.88	0.01	0	0	
7	2019-11-01 01:30:00	19685.88	0	0	0	

2.6 Historical data (second level)

The historical data is queried according to the device, including: acquisition date, phase A voltage, phase B voltage, phase C voltage, Ab line voltage, Bc line voltage, Ca line voltage, phase A current, phase B current, phase C current, operation.

number	Acquisition date	Ua	Ub	Uc	Ia	Ib	Ic	Uab	Ubc	Uca	Operation
1	2019-11-01 16:00:00	235.10	224.50	229.60	0.04	0.05	0.03	407.19	388.83	397.67	Details
2	2019-11-01 16:00:10	235.10	224.50	229.60	0.04	0.05	0.03	407.19	388.83	397.67	Details
3	2019-11-01 16:00:20	235.10	224.50	229.60	0.04	0.05	0.03	407.19	388.83	397.67	Details
4	2019-11-01 16:00:30	235.10	224.50	229.60	0.04	0.05	0.03	407.19	388.83	397.67	Details
5	2019-11-01 16:00:40	235.10	224.50	229.60	0.04	0.05	0.03	407.19	388.83	397.67	Details
6	2019-11-01 16:00:50	235.10	224.50	229.60	0.04	0.05	0.03	407.19	388.83	397.67	Details
7	2019-11-01 16:01:00	234.40	223.60	230.80	0.03	0.06	0.03	405.98	387.28	399.75	Details
8	2019-11-01 16:01:10	234.40	223.60	230.80	0.03	0.06	0.03	405.98	387.28	399.75	Details
9	2019-11-01 16:01:20	234.40	223.60	230.80	0.03	0.06	0.03	405.98	387.28	399.75	Details
10	2019-11-01 16:01:30	234.40	223.60	230.80	0.03	0.06	0.03	405.98	387.28	399.75	Details
11	2019-11-01 16:01:40	234.40	223.60	230.80	0.03	0.06	0.03	405.98	387.28	399.75	Details

2.7 Historical data report

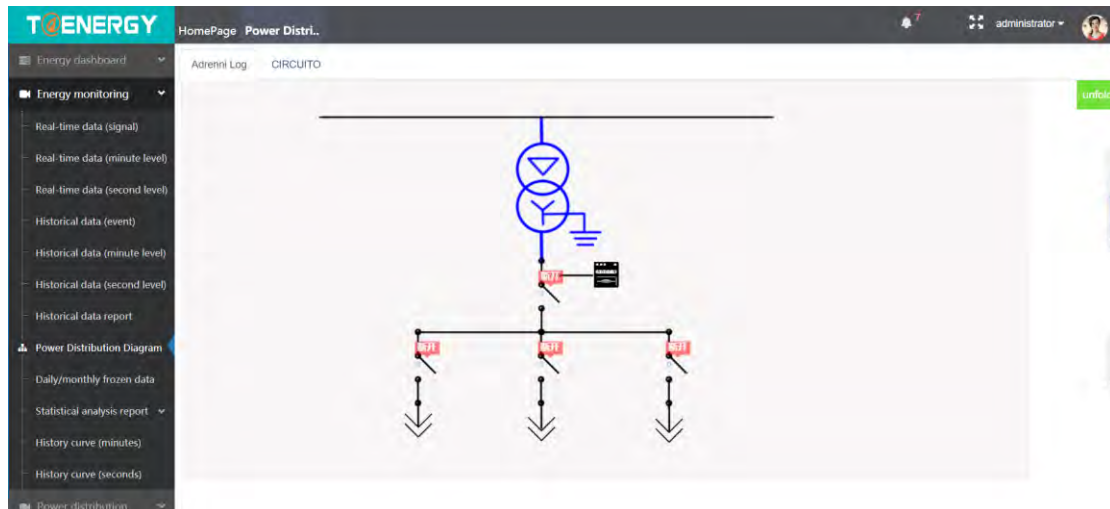
Query the historical data report of the device according to the device, including: date, phase A current, phase C current, phase A voltage, phase B voltage, phase C voltage, line AB voltage, BC line voltage, CA line voltage, positive active power Degree, positive reactive power, apparent power, power factor.

Number	Date	Ia	Ic	Ua	Ub	Uc	Uab	Ubc	Uca	Positive active power	Forward reactive power	apparent power	power factor
1	00:00:00	0.04	0.03	233.67	232.17	230.23	404.71	402.11	398.76	0	0	0.03	0.86
2	00:15:00	0.03	0.03	233.12	229.75	231.85	403.76	397.93	401.56	0.01	0	0.03	0.87
3	00:30:00	0.04	0.03	232.52	228.97	230.52	402.72	396.57	399.26	0	0	0.03	0.86
4	00:45:00	0.04	0.03	229.13	228	226.67	396.86	394.89	392.59	0	0	0.03	0.87
5	01:00:00	0.03	0.03	232.25	227.25	228.65	402.26	393.6	396.02	0	0	0.03	0.88
6	01:15:00	0.03	0.03	228.7	225.23	225.77	396.11	390.11	391.03	0.01	0	0.03	0.92
7	01:30:00	0.04	0.03	228.7	226.6	224.5	396.11	392.47	388.83	0	0	0.03	0.91
8	01:45:00	0.04	0.03	228.17	227.1	225.17	395.18	393.33	389.99	0	0.01	0.03	0.87
9	02:00:00	0.03	0.03	229	226.3	225.25	396.63	391.96	390.13	0	0	0.03	0.92
10	02:15:00	0.03	0.03	228.93	227.72	224.4	396.52	394.4	388.66	0	0	0.03	0.91

Note: You can click on the circle in the picture to view the device-related data items.

2.8 Power distribution diagram

View physical structure circuit diagram.



2.9 Daily/Monthly frozen data

Find the frozen data of the corresponding time type of the device, including: freeze date, acquisition date, positive active value, positive reactive value, reverse active value, reverse reactive value, positive active power Positive reactive power, reverse active energy, reverse reactive power.

Number	Freeze date	Collection types	In value				The electricity			
			Positive active	Positive reactive	Reverse active	Reverse reactive	Positive active	Positive reactive	Reverse active	Reverse react
1	20191001	Normal	6230.34	3344.16	0	0	0	0	0	0
2	20191002	Normal	6230.34	3344.16	0	0	0	0	0	0
3	20191003	Normal	6230.34	3344.16	0	0	0	0	0	0
4	20191004	Normal	6230.34	3344.16	0	0	0	0	0	0
5	20191005	Normal	6230.34	3344.16	0	0	0	0	0	0
6	20191006	Normal	7054.22	3698.82	0	0	823.88	354.47	0	0
7	20191007	Normal	8256	4279.97	0	0	1201.76	581.34	0	0
8	20191008	Normal	9516.66	4906.59	0	0	1260.66	626.62	0	0
9	20191009	Normal	10642.31	5434.31	0	0	1125.66	527.72	0	0
10	20191010	Normal	11814.47	5968.41	0	0	1172.16	534.09	0	0

2.10 Statistical analysis report

2.10.1 Equipment failure report

Query device failure report according to selected conditions.

The screenshot shows the T-ENERGY web application interface. The left sidebar lists various data viewing options. The main content area is titled 'Equipment fa...' and contains a search form. The search criteria are: Enterprise: Xuji information intell..., Gateway: 1#DPU, Monitor: All. The start time is 2019-11-01 16:00 and the end time is 2019-11-01 16:44. The search button is visible. Below the search form, there is a table with columns: Number, Monitoring point name, Acquisition date, Event type, and fault types. The table is currently empty, showing the message 'No matching records were found'.

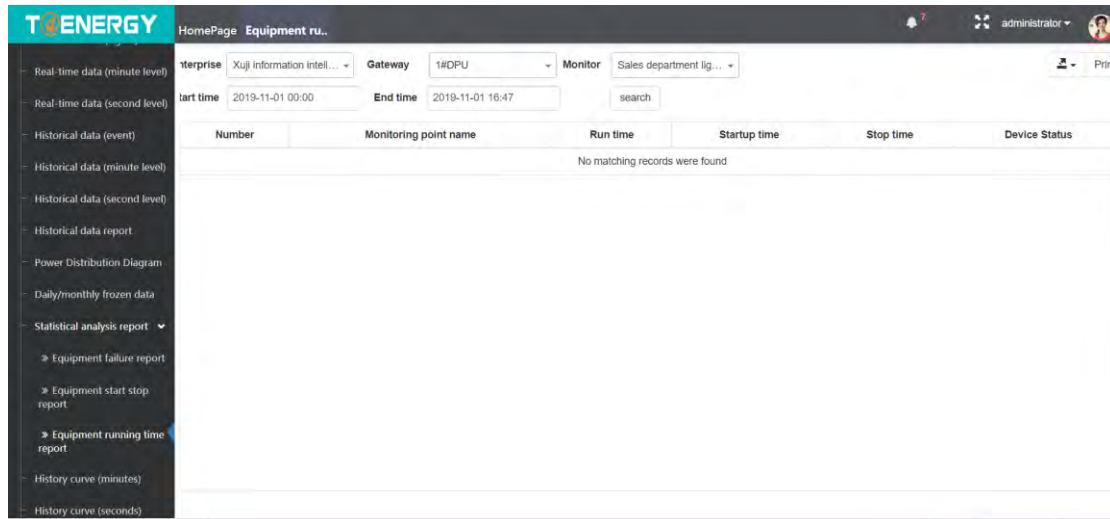
2.10.2 Equipment start-stop report

View equipment start and stop information.

This screenshot shows the 'Equipment start-stop report' page in the T-ENERGY interface. The search criteria are: Enterprise: Xuji information intell..., Gateway: 1#DPU, Monitor: undefined. The start time is 2019-11-01 16:00 and the end time is 2019-11-01 16:47. The search button is visible. The table below has columns: Number, Monitoring point name, Acquisition date, Event type, and occurrence time. It is empty with the message 'No matching records were found'.

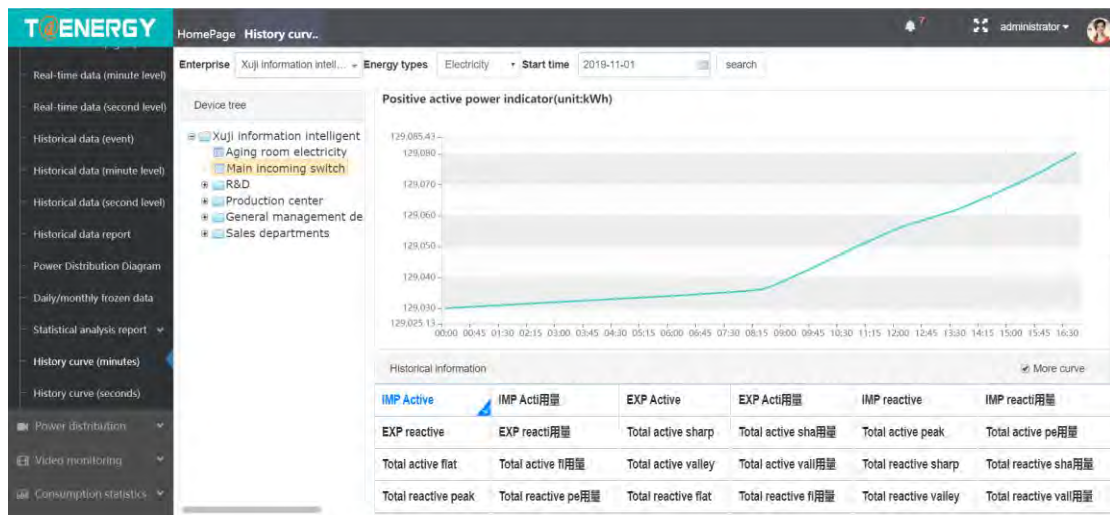
2.10.3 Equipment running time report

Query device runtime report



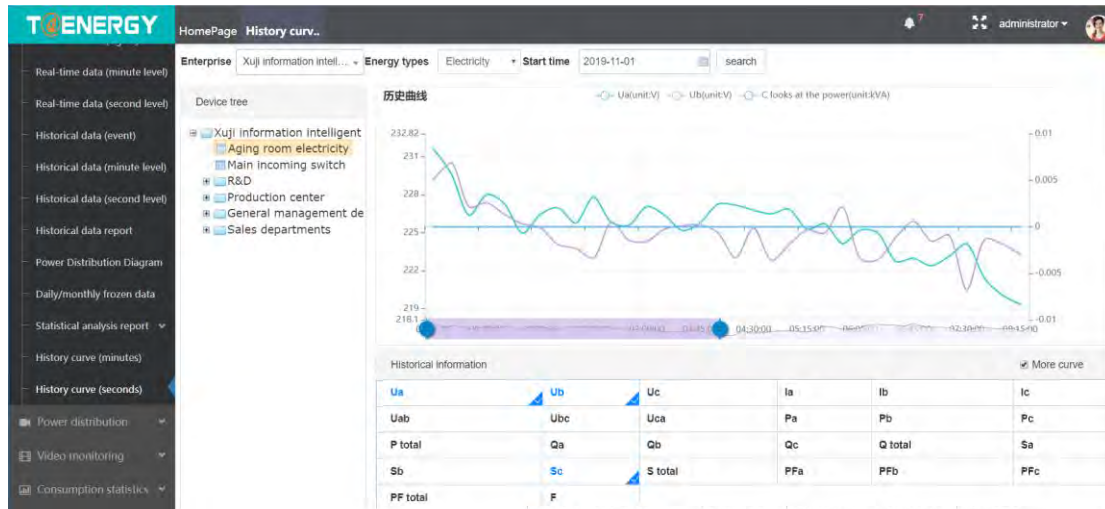
2.11 Historical curve (minutes)

View the device's minute-level history curve, and select the data item of the device to be viewed according to the following historical information (Note: the device's data items may be different).



2.12 Historical curve (seconds)

View the device's second-level history curve, and select the data item of the device to be viewed according to the following historical information (Note: the device's data items may be different).

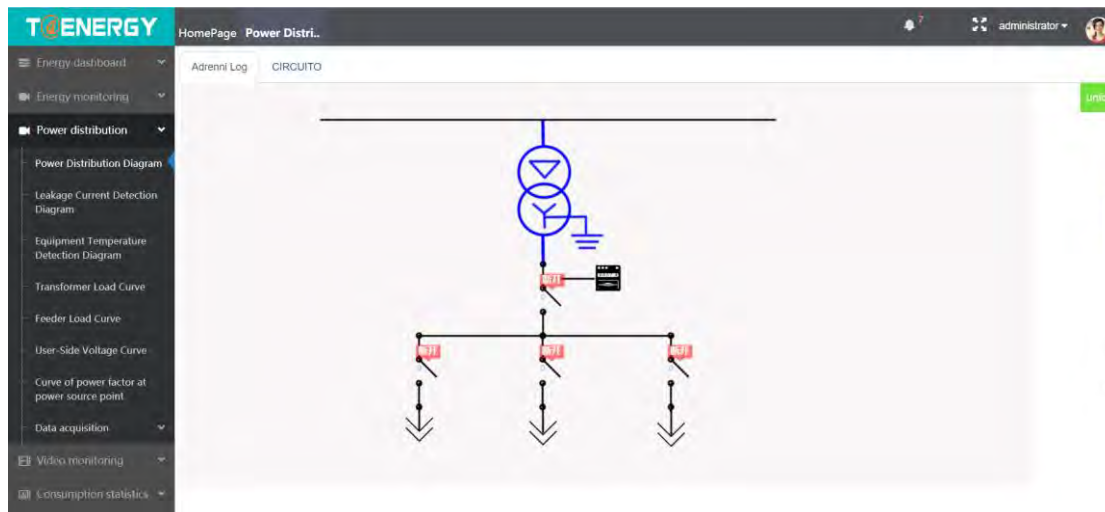


3. Power Distribution

Note: This module could not work temporarily.

3.1 Power distribution diagram

View the physical structure circuit diagram.



3.2 Data collection

3.2.1 Real-time data (signal)

Query real-time data of devices in the enterprise.

TENERGY

HomePage Real-time da...

Enterprise Xuji information Intell...

Gateway1#DPU

MonitoringWorkshop air conditi...

search

» Real-time data (signal)

» Real-time data (minute level)

» Real-time data (second level)

» Historical data (minute level)

» Historical data (second level)

Video monitoring

Consumption statistics

Consumption analysis

Electric power analysis

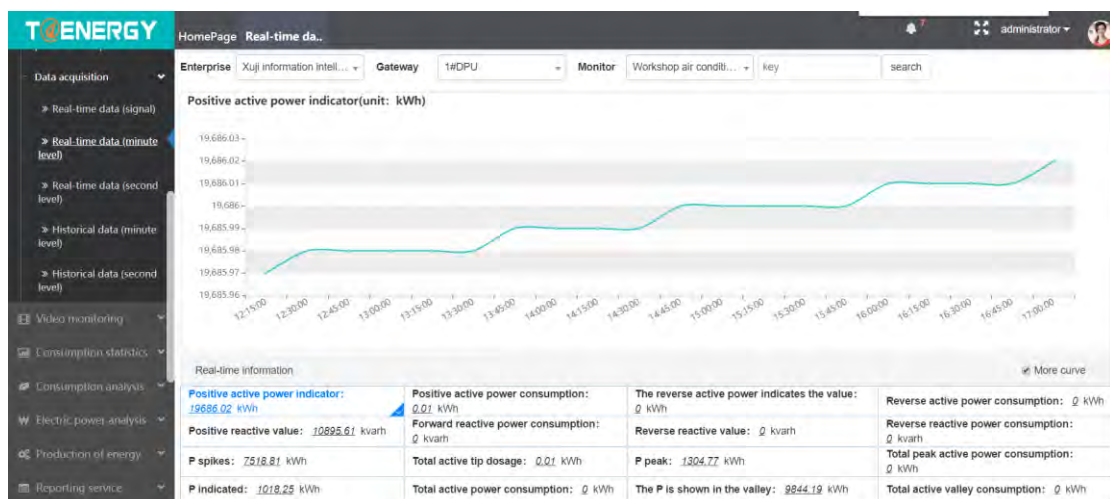
Production of energy

Reporting service

Number	Event type	Acquisition date	Data item description	The alarm value	The set value	Note
1	The more limited	2019-07-09 16:13:28	B相电压越上限值	217.1	50	UBS
2	The more limited	2019-07-09 16:12:26	B相电压越上限值	220.1	50	UBS
3	The more limited	2019-07-09 16:11:24	B相电压越上限值	219.1	50	UBS
4	The more limited	2019-07-09 16:10:21	B相电压越上限值	220.3	50	UBS
5	The more limited	2019-07-09 16:09:20	B相电压越上限值	219.1	50	UBS
6	The more limited	2019-07-09 16:08:18	B相电压越上限值	220.4	50	UBS
7	The more limited	2019-07-09 16:07:16	B相电压越上限值	217.6	50	UBS
8	The more limited	2019-07-09 16:06:14	B相电压越上限值	218.9	50	UBS
9	The more limited	2019-07-09 16:05:12	B相电压越上限值	219.8	50	UBS
10	The more limited	2019-07-09 16:04:10	B相电压越上限值	219.7	50	UBS
11	The more limited	2019-07-09 16:03:08	B相电压越上限值	221.9	50	UBS
12	The more limited	2019-07-09 16:01:04	B相电压越上限值	222.5	50	UBS
13	The more limited	2019-07-09 16:00:02	B相电压越上限值	222.2	50	UBS
14	The more limited	2019-07-09 15:59:01	B相电压越上限值	222	50	UBS

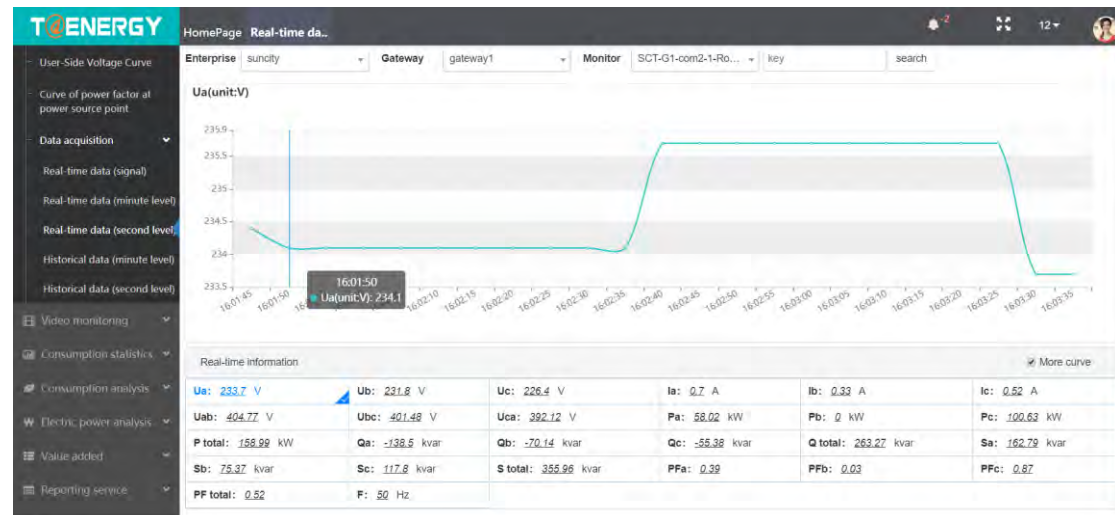
3.2.2 Real-time data (minutes)

Query data of equipment items in the enterprise



3.2.3 Real-time data (seconds)

Query data of equipment items in the enterprise



3.2.4 Historical data (minutes)

Query historical data based on selected criteria

The screenshot shows the T3ENERGY Historical data interface. The top navigation bar includes 'Enterprise', 'Gateway', and 'Monitor'. The main area displays a table of historical data for power consumption. The table includes columns for number, acquisition date, positive active power indicator, positive active power consumption, reverse active power indicator, and reverse active power consumption. The data is filtered by start time (2019-11-01 00:00) and end time (2019-11-01 17:06).

number	Acquisition date	Positive active power indicator	Positive active power consumption	The reverse active power indicates the value	Reverse active power consumption	Pos
1	2019-11-01 00:00:00	19685.86	0	0	0	
2	2019-11-01 00:15:00	19685.87	0.01	0	0	
3	2019-11-01 00:30:00	19685.87	0	0	0	
4	2019-11-01 00:45:00	19685.87	0	0	0	
5	2019-11-01 01:00:00	19685.87	0	0	0	
6	2019-11-01 01:15:00	19685.88	0.01	0	0	
7	2019-11-01 01:30:00	19685.88	0	0	0	

3.2.5 Historical data (seconds)

Query historical data based on selected criteria

T4ENERGY HomePage Historical d...

Enterprise Xuji information intelli... Gateway 1#DPU Monitor Workshop air conditi...

Start time 2019-11-01 17:00 End time 2019-11-01 17:07 search

number	Acquisition date	Ua	Ub	Uc	Ia	Ib	Ic	Uab	Ubc	Uca	Operation
1	2019-11-01 17:00:00	234.10	223.70	229.50	0.03	0.06	0.03	405.46	387.45	397.49	Details
2	2019-11-01 17:00:10	234.10	223.70	229.50	0.03	0.06	0.03	405.46	387.45	397.49	Details
3	2019-11-01 17:00:20	234.10	223.70	229.50	0.03	0.06	0.03	405.46	387.45	397.49	Details
4	2019-11-01 17:00:30	234.10	223.70	229.50	0.03	0.06	0.03	405.46	387.45	397.49	Details
5	2019-11-01 17:00:40	233.30	225.50	230.60	0.03	0.06	0.03	404.08	390.57	399.40	Details
6	2019-11-01 17:00:50	233.30	225.50	230.60	0.03	0.06	0.03	404.08	390.57	399.40	Details
7	2019-11-01 17:01:00	233.30	225.50	230.60	0.03	0.06	0.03	404.08	390.57	399.40	Details
8	2019-11-01 17:01:10	233.30	225.50	230.60	0.03	0.06	0.03	404.08	390.57	399.40	Details
9	2019-11-01 17:01:20	233.30	225.50	230.60	0.03	0.06	0.03	404.08	390.57	399.40	Details
10	2019-11-01 17:01:30	232.50	225.10	231.10	0.03	0.05	0.03	402.69	389.87	400.27	Details
11	2019-11-01 17:01:40	232.50	225.10	231.10	0.03	0.05	0.03	402.69	389.87	400.27	Details

1 - 20 A total of 43 columns, a pageshow 20 pages

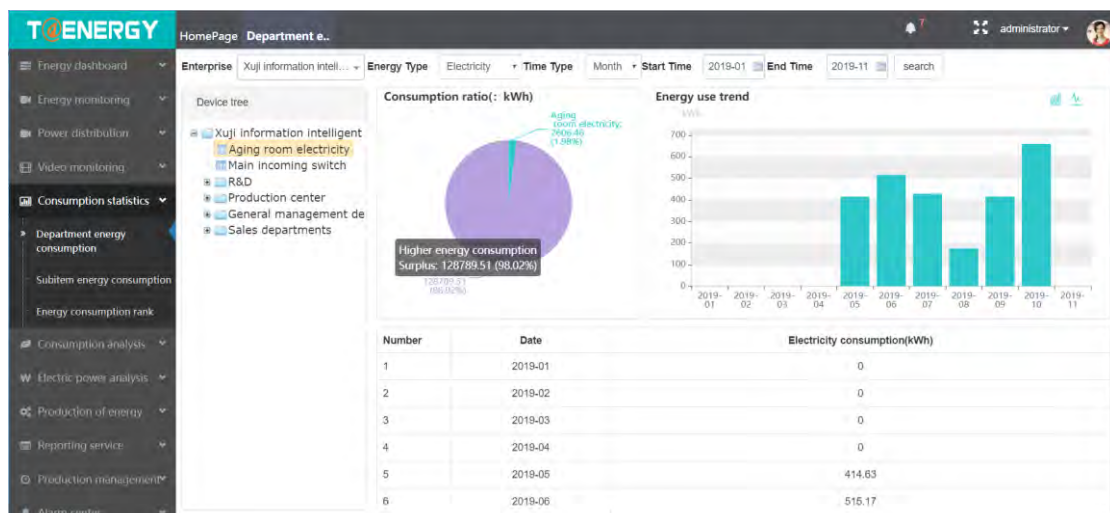
4 Video monitoring

This module is still under test temporarily.

5 Energy consumption statistics

5.1 Department energy consumption

View energy consumption for departments and equipment



Interface description:

There are three cases of grading energy consumption:

1. If it is a device under the enterprise, the graph is the energy consumption of the device and the total energy consumption of the enterprise.
2. If the department is clicked, the graph is the department energy consumption and the total

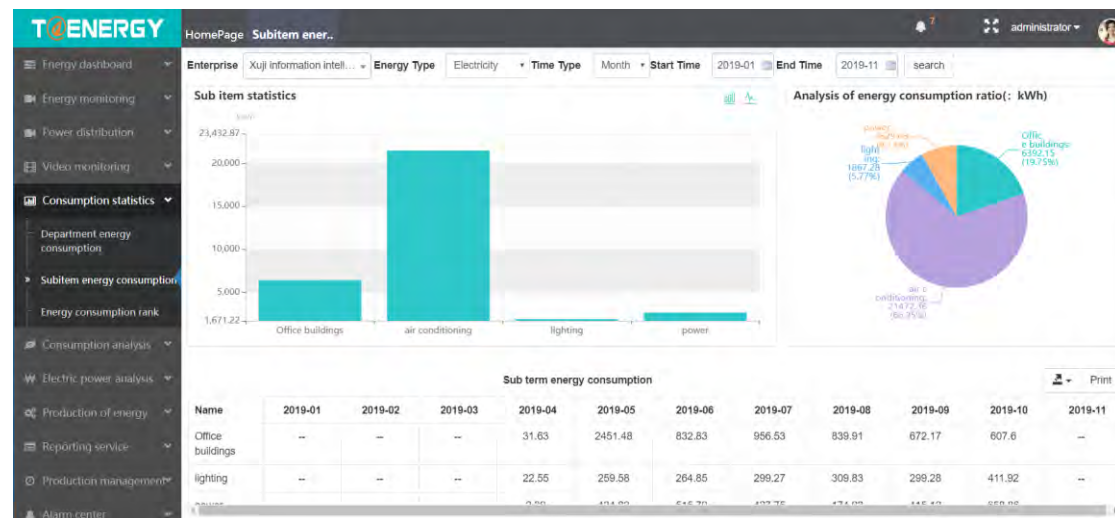
energy consumption of the enterprise.

3. If it is a device under the department, the graph is the energy consumption of the device and the energy consumption of the department.

Energy trend: If the device is clicked, it indicates the energy consumption trend of the device; if the department is clicked, it indicates that the department can use the energy trend.

5.2 Sub-item energy consumption

This function is to count different types of consumption. The corresponding data can be viewed according to the selection criteria.

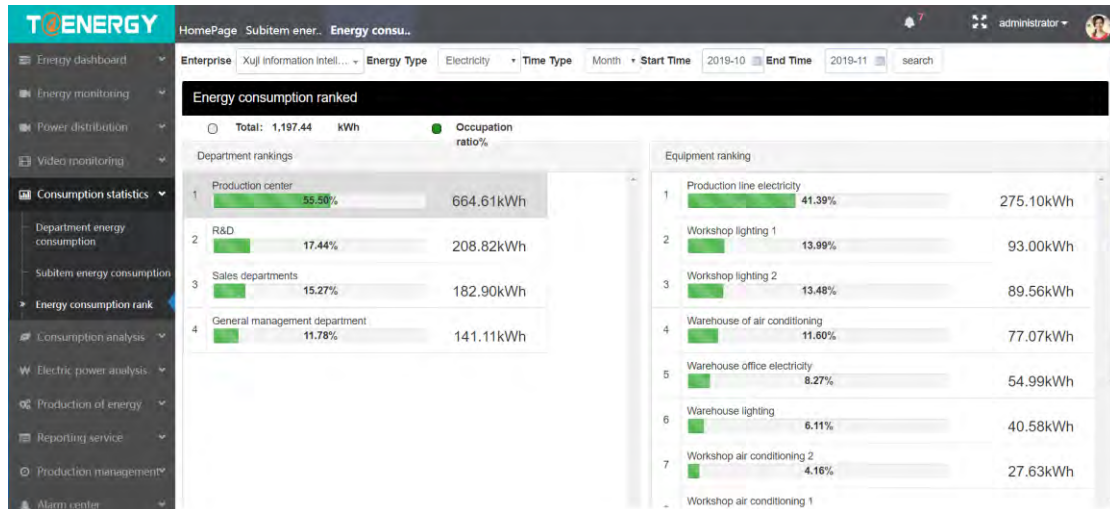


5.3 Energy consumption rank

Query the corresponding data according to the conditions.

The department ranking on the left: is the energy consumption data of all departments below the enterprise.

Device ranking on the right: All device data below the department. The first time you enter the default is the device energy consumption under the first department.

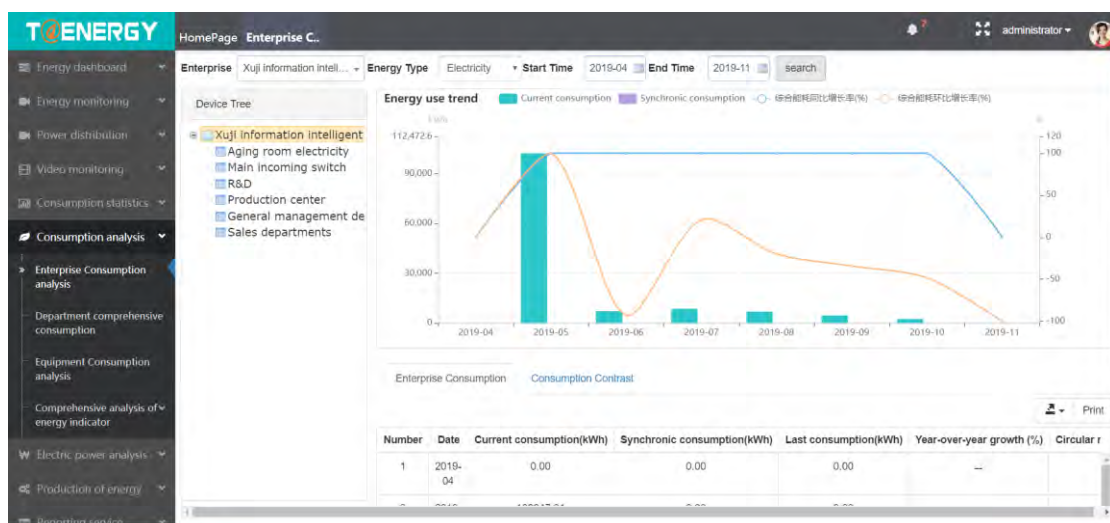


6 Energy consumption analysis

Under the energy consumption analysis, there are four modules: enterprise energy consumption analysis, department comprehensive energy consumption, equipment energy consumption analysis, and comprehensive analysis of energy indicators. Detailed description below:

6.1 Enterprise energy consumption analysis

The above is the query conditions: enterprise, energy type, time period, click search to see energy consumption graph. The upper left corner is the device tree of the monitoring points distributed within the enterprise. The right side is the graph showing the current and year-to-year comprehensive energy consumption information during the query time period. The following is a tabular display.



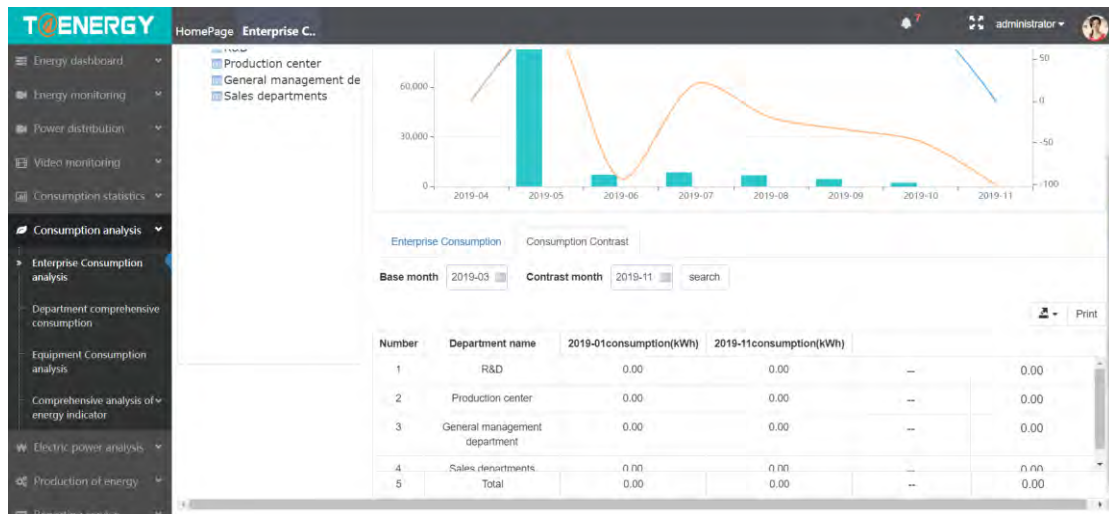
- The organization structure of the company is listed on the left, including the company name, the total entry line, and various departments. Click on "Enterprise" to view the analysis of the

energy use of the enterprise. Click on the "Department" to view the analysis of the energy use of the department.

- Click the Enterprise drop-down list box to select the enterprise. Click the Energy Type drop-down list box to select the energy type and support multiple time periods.
- The blue histogram shows the total energy consumption of the query month, and the purple histogram shows the total energy consumption of the corresponding period.
- The blue curve indicates the year-on-year growth rate of the comprehensive energy consumption of the month under review.
- The yellow curve indicates the overall energy consumption growth rate of the month under review.
- The enterprise energy/department energy tab page below shows the data report of the energy consumption of the enterprise or department. Click the enterprise to display the enterprise energy consumption report, and click the department to display the department energy consumption report. The report details are explained below:
 - ◆ No.: Report number
 - ◆ Date: The date of the query selected by the user.
 - ◆ Current comprehensive energy consumption: total energy consumption for the month of the year(unit / kWh)。
 - ◆ Comprehensive energy consumption during the same period: total energy consumption in the previous month (unit / kWh)
 - ◆ Comprehensive energy consumption in the previous period; total energy consumption in the previous month (unit / kWh)
 - ◆ Year-on-year growth rate of comprehensive energy consumption: (Total energy consumption in the current month - Total energy consumption in the same period last year) / Total energy consumption in the previous year
 - ◆ Comprehensive energy consumption growth rate: (current total energy consumption in the month - total energy consumption in the previous month) / total energy consumption in the month
- When selecting an enterprise, the energy consumption comparison data report will appear on the tab page below (when the department is selected, the energy consumption comparison tab page will disappear).
- The comparison of energy consumption shows the energy consumption comparison of various departments within the enterprise. The details of the data report are explained as follows:
 - ◆ Base month: Select the month to compare
 - ◆ Contrast month: select the month that needs to be compared
 - ◆ Serial number: report data serial number
 - ◆ Department Name: The name of the internal department of the company
 - ◆ Yyyy-mm consumption: Total energy consumption in the base month (units / kWh)
 - ◆ Yyyy-mm consumption: Contrast monthly energy consumption (units / kWh)
 - ◆ Ring: (compared month - total energy consumption for the month of the previous year) / total energy consumption for the previous month
 - ◆ Increase or decrease: Compare the total energy consumption in the month - the total energy consumption in the base month, the red font indicates that the energy

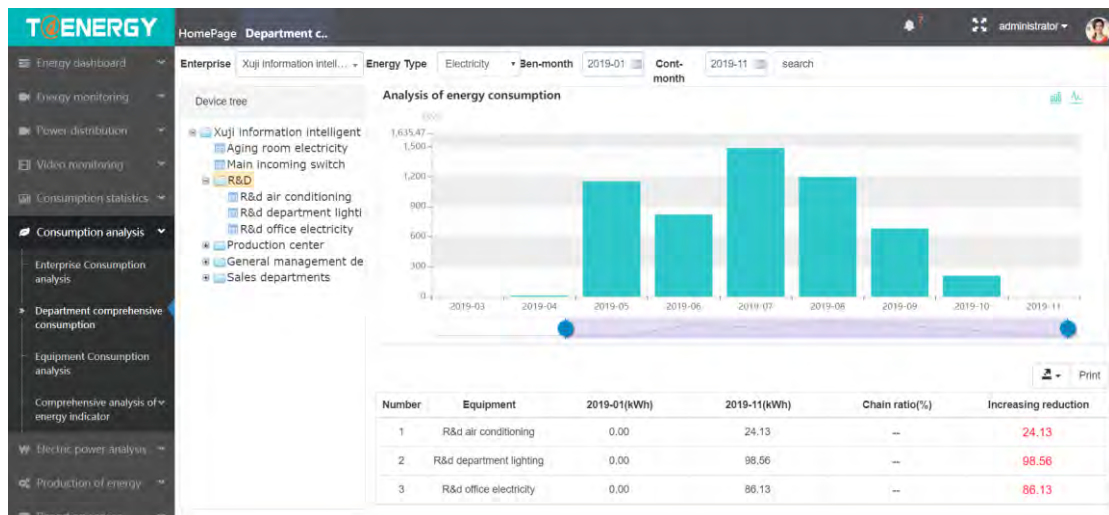
consumption is rising, and the red font indicates the energy consumption is decreasing.

- ◆ Click the Export button at the top right of the report to export the report data to the local.



6.2 Departmental energy consumption analysis

The function of this module is to analyze the energy consumption of various departments within the enterprise and the energy consumption of each monitoring point under the department.:

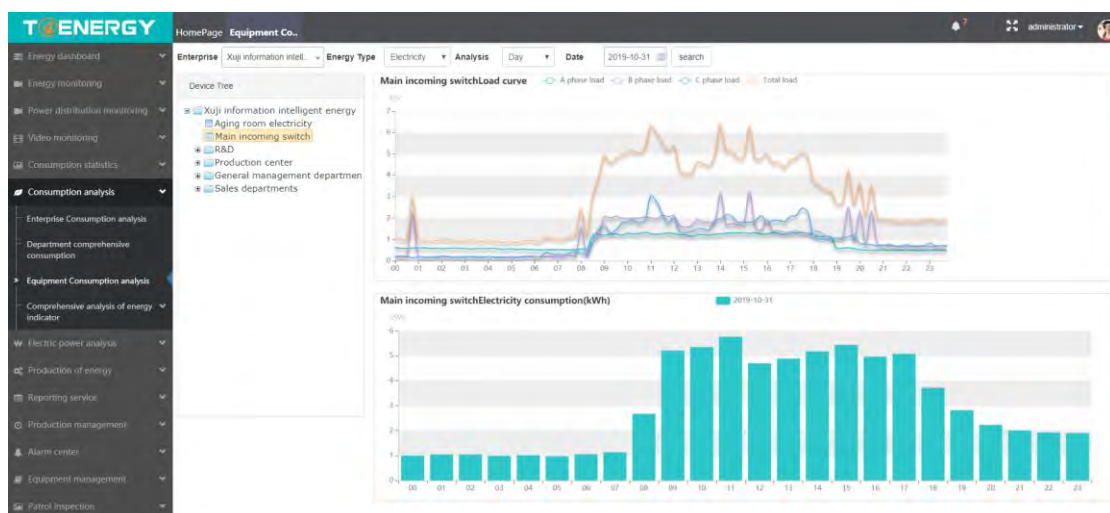


- The left side shows the organizational structure of the company, including the company name, the total entry line, the monitoring points under various departments and departments. Support the energy analysis of departments and monitoring points.
- Click the enterprise drop-down list box to select the enterprise. Select the energy type drop-down list box to select the energy type. Select the base month and contrast month controls to select the base month and the comparison month.
- The blue histogram shows the total energy consumption of the monitoring points in the department or department under the query month.
- Drag the lower slider to zoom in or out of the histogram.

- The lower table shows the comparison between the base month and the contrast month of the selected department or monitoring point. The details of the data report are explained as follows:
 - ◆ Serial number: report data serial number
 - ◆ Monitoring point: When the department query is selected, the names of all monitoring points under the department are displayed. Display the name of the monitoring point when selecting a monitoring point query.
 - ◆ Yyyy-mm energy consumption: total energy consumption in the base month (unit / kWh)
 - ◆ Yyyy-mm energy consumption: total energy consumption in contrast months (units / kWh)
 - ◆ Ring ratio: $(\text{total energy consumption of contrast month} - \text{total energy consumption same month in the previous year}) / \text{total energy consumption same month in the previous year}$
 - ◆ Amount of increase and decrease: The total energy consumption of the contrast month - the total energy consumption of the base month. The red font indicates an increase in energy consumption and the green font indicates a decrease in energy consumption.
 - ◆ Export the report data to the local by clicking the Export button at the top right of the report.

6.3 Equipment energy consumption analysis

The function of the energy analysis module of the equipment is to show in detail the load curve and the electricity consumption of each hour of a certain device in each day through the graph curve and the histogram:



- The left side shows the organizational structure of the company, including the company name, the total entry line, all departments, and all equipment under each department. Select a device to view the energy consumption of that device for the day.
- Click the Enterprise drop-down list box to select the enterprise. Select the Energy Type drop-down list box to select the energy type. Select the Analysis Dimension drop-down list

box to select the analysis dimension and select the date control to select the date of the query.

- The upper right graph is the electric load curve, the blue curve is the A phase load curve, the purple curve is the B phase load curve, the light blue curve is the C phase load curve, and the yellow curve is the total load curve.
- The histogram in the middle of the right side shows the amount of electricity used per hour on the day.
- The lower table shows the energy consumption and comparison of the selected equipment in the past two days. The data report details are explained below.
 - ◆ Serial number: report data serial number
 - ◆ Yyyy-mm-dd Energy consumption: Base day total energy consumption(unit/ kWh)
 - ◆ Yyyy-mm-dd Energy consumption: Contrast day total energy consumption(unit/ kWh)
 - ◆ Ring ratio: (the total consumption of contrast day - the total consumption of base day) / tthe total consumption of base day. The red font indicates an increase and the green font indicates a decrease
 - ◆ Increase or decrease: consumption of contrast day - consumption of base day. Red font indicates increased energy consumption, green font indicates reduced energy consumption
 - ◆ Export the report data to the local by clicking the Export button at the top right of the report.

Daily comparison: you can check the energy usage of any two days.

- The upper part of the right side is the electric load curve, which compares the load conditions of the two days using the load curve form.
- The right middle histogram shows the total energy consumption per hour for the selected date, the blue histogram is the consumption of base day, and the purple histogram is the consumption of contrast day.
- The lower table shows the energy consumption and comparison of the selected equipment in the past two days. The data report details are explained below.
 - ◆ Serial number: report data serial number
 - ◆ Yyyy-mm-dd Energy consumption: Base day total energy consumption(unit/ kWh)
 - ◆ Yyyy-mm-dd Energy consumption: Contrast day total energy consumption(unit/ kWh)
 - ◆ Ring ratio: (the total consumption of contrast day - the total consumption of base day) / tthe total consumption of base day. The red font indicates an increase and the green font indicates a decrease
 - ◆ Increase or decrease: consumption of contrast day - consumption of base day. Red font indicates increased energy consumption, green font indicates reduced energy consumption
 - ◆ Export the report data to the local by clicking the Export button at the top right of the report.

Day range: You can view the energy curve for three consecutive days and the histogram display of sharp, peak, flat, valley, and ridge.

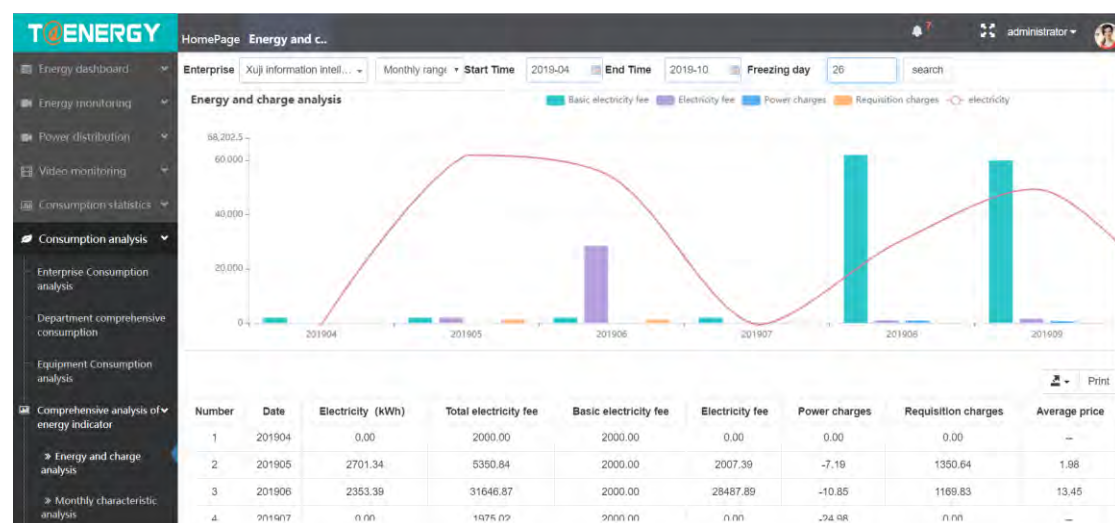
- The upper part of the right side is the electric load curve, showing the average of the three-day load. The blue curve represents the A phase load, the purple curve represents the B phase load, the light blue curve represents the C phase load, and the yellow curve represents the total load.
- The bottom bar chart on the right side shows the total energy consumption during the electricity hours of the sharp, peak, flat, valley and ridge. Different colors represent unused power consumption periods. For details, please refer to the legend.

6.4 Comprehensive analysis of energy indicators

Comprehensive analysis of energy indicators includes electricity tariff analysis, load characteristics analysis, electricity price period analysis, power factor analysis.

6.4.1 Energy and charge analysis

Analyze and query the electricity bills of the enterprise during a certain period. It is displayed in graph (electricity), basic electric fee (column pattern), Electricity fee (column graph), Power charges (column graph), and Requisition charges (column graph). You need to select a positive integer from 1-28 as the freezing day. Need to go along the route: "system management" > "price management" to set the electricity tariff parameter

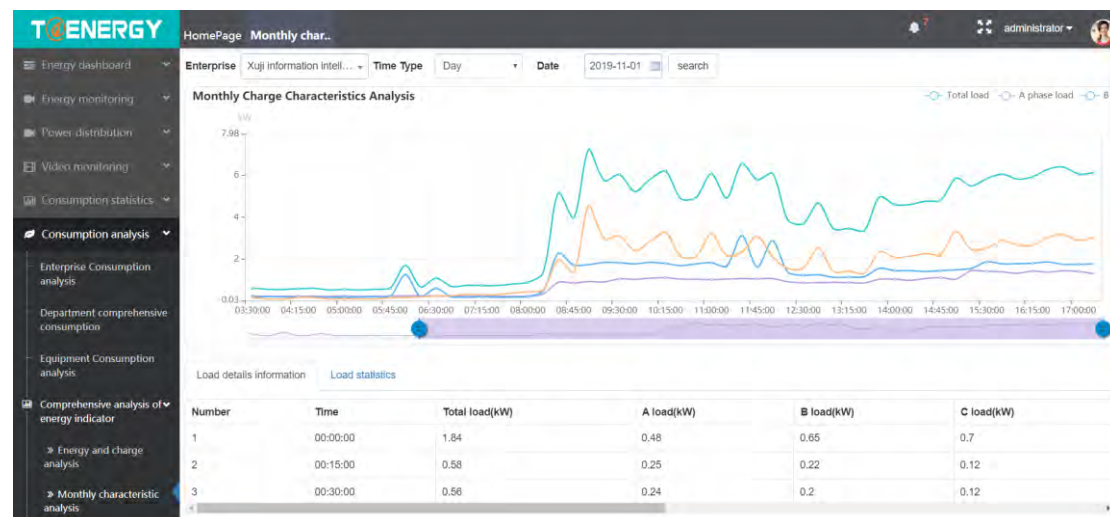


- At the top of the page, you can set the company to be queried, date range, specific start time and end time.
- After selecting the “month range”, the histogram shows the expenses (units/yuan) of various types of electricity charges for each month in the selected range. The current supported electricity tariffs are: basic electric fee, electricity fee, power charges (column graph), and requisition charges .
- The curve shows the total power consumption of each month.
- The lower table is the electricity and electricity cost data report of the selected company.
 - ◆ Serial number: report data serial number
 - ◆ Date: Queried month

- ◆ Electricity: The total electricity consumed by the company during the month (units / kWh)
- ◆ Total electricity bill: The total electricity cost of the enterprise this month (units/yuan).
- ◆ Basic electric fee: The maximum capacity of the transformer of the enterprise in the month * Capacity basic electricity price (unit / yuan).
- ◆ Electricity fee: The company consumes total electricity for the month *tariff (units/yuan).
- ◆ Power charges: The company's active and reactive power used in the month to calculate its average power factor, and calculate the electricity fee (units/yuan).
- ◆ Requisition charges: The electricity fee (unit/yuan) converted by the water conservancy construction fund collected by the power supply company on behalf of the government during the month.
- ◆ Average electricity price: The total electricity bill of the company for the month / total electricity (unit / yuan).
- ◆ Export the report data to the local by clicking the Export button at the top right of the report.

6.4.2 Load characteristic analysis

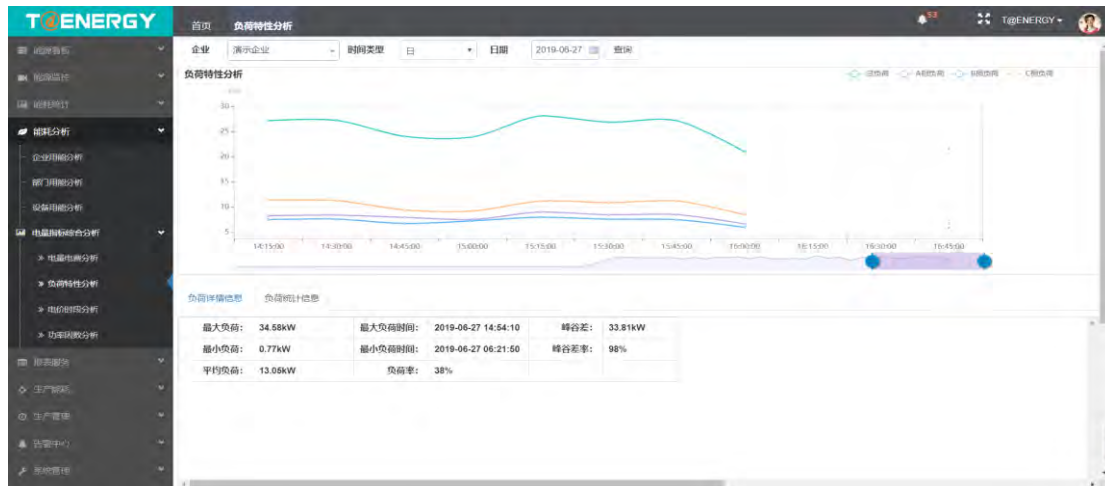
The module functions to analyze the energy load analysis of the enterprise for a certain period of time (a certain day, a few days, a certain month, a few months).



- At the top of the page, you can set the company to be queried, the date range, the specific start time and end time.
- When the time range is set to "day", the load characteristic graph shows the load of the total load, phase A load, phase B load, and phase C load of the enterprise at that time.
- When the time range selects "day range" or "month range", the load characteristic graph shows the analysis results of the maximum load, minimum load, peak-to-valley difference, and average load of the enterprise during the set time period.
- The load details report summarizes the maximum load (kW), minimum load (kW), peak-to-valley difference, average load (kW), peak-to-valley difference, and load rate for a

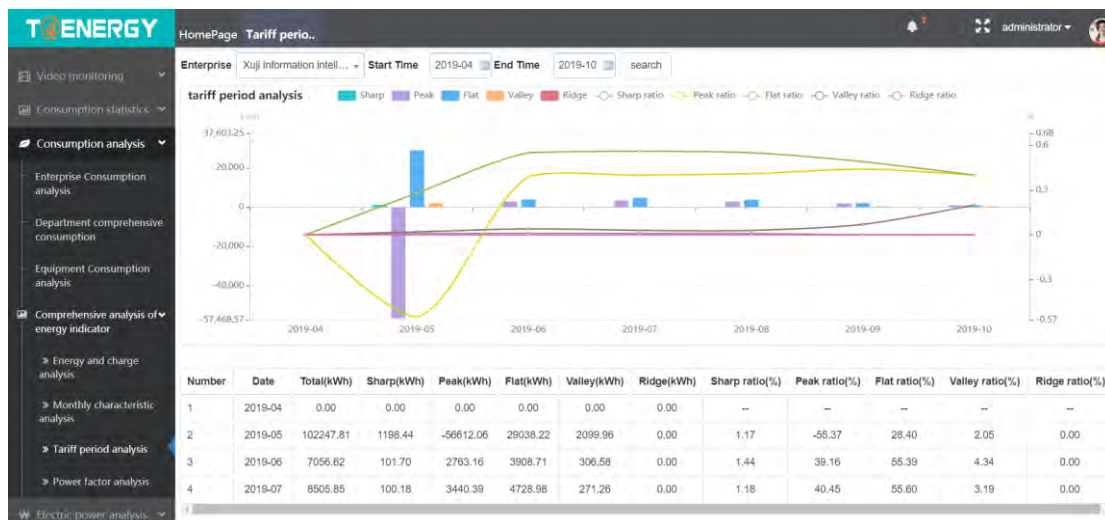
certain period of time.

- Load statistics report: It summarizes the maximum load (kW), minimum load (kW), peak-to-valley difference, average load (kW), peak-to-valley difference, load rate, maximum load time, minimum for a certain period of time. Load time detailed data (as shown in the figure below).



6.4.3 Tariff period analysis

The function of the tariff period analysis module is to analyze the total energy consumption of the sharp, peak, flat, valley and ridge and their ratio.

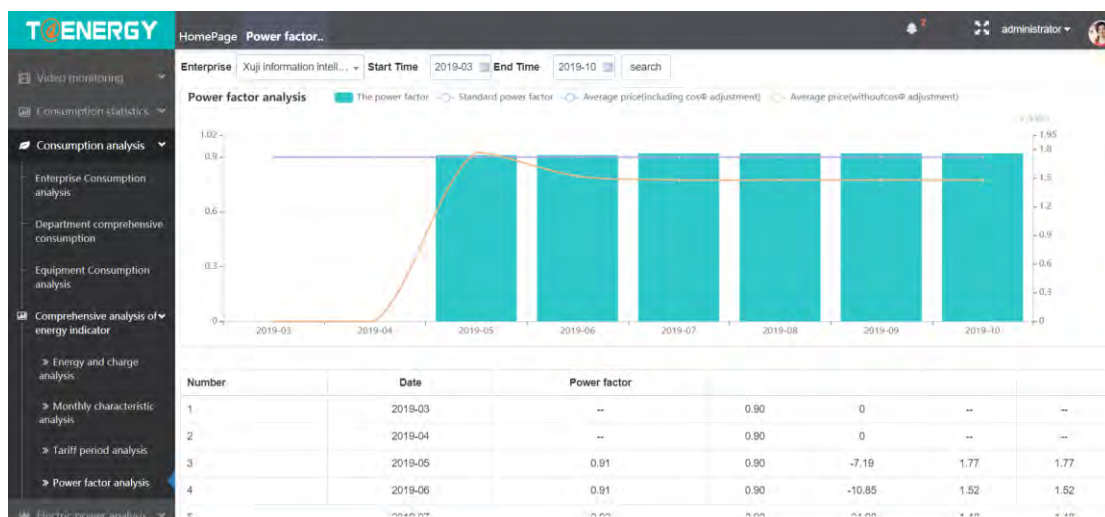


- At the top of the page, you can set the company to be queried, the date range, the specific start time and end time.
- The histograms in the upper chart show the total energy (in kWh) of the sharp, peak, flat, valley, and ridge energy consumption for each time period of the query in different colors (see legend).
- The curves in the upper chart show the proportion of the energy consumed in each period of the sharp, peak, flat, valley, and ridge in the total power consumption of the enterprise during that period in different colors (see legend).

- The lower report summarizes the energy consumption and the proportion of each tariff period. The details of the data report are explained below:
 - ◆ Serial number: report data serial number
 - ◆ Date: Selected date to be queried
 - ◆ Total electricity: The total energy consumption of the enterprise during the month (unit / kWh)
 - ◆ Sharp power: The amount of electricity (in kWh) consumed by the company during the sharp period of the month.
 - ◆ Peak power: The amount of electricity (in kWh) consumed by the company during the peak period of the month.
 - ◆ Flat power: The amount of electricity (in kWh) consumed by the company during the flat period of the month.
 - ◆ Valley power: The amount of electricity (in kWh) consumed by the company during the valley period of the month.
 - ◆ Ridge power: The amount of electricity (in kWh) consumed by the company during the ridge period of the month.
 - ◆ Sharp power consumption ratio: the proportion of electricity used in the sharp period in the total power consumption of the month (unit/%)
 - ◆ Peak power consumption ratio: the proportion of electricity used in the peak period in the total power consumption of the month (unit/%)
 - ◆ Flat power consumption ratio: the proportion of electricity used in the flat period in the total power consumption of the month (unit/%)
 - ◆ Valley power consumption ratio: the proportion of electricity used in the valley period in the total power consumption of the month (unit/%)
 - ◆ Ridge power consumption ratio: the proportion of electricity used in the ridge period in the total power consumption of the month (unit/%)

6.4.4 Power factor analysis

The function of this module is to analyze the change of power factor and power charges in each month of the enterprise.



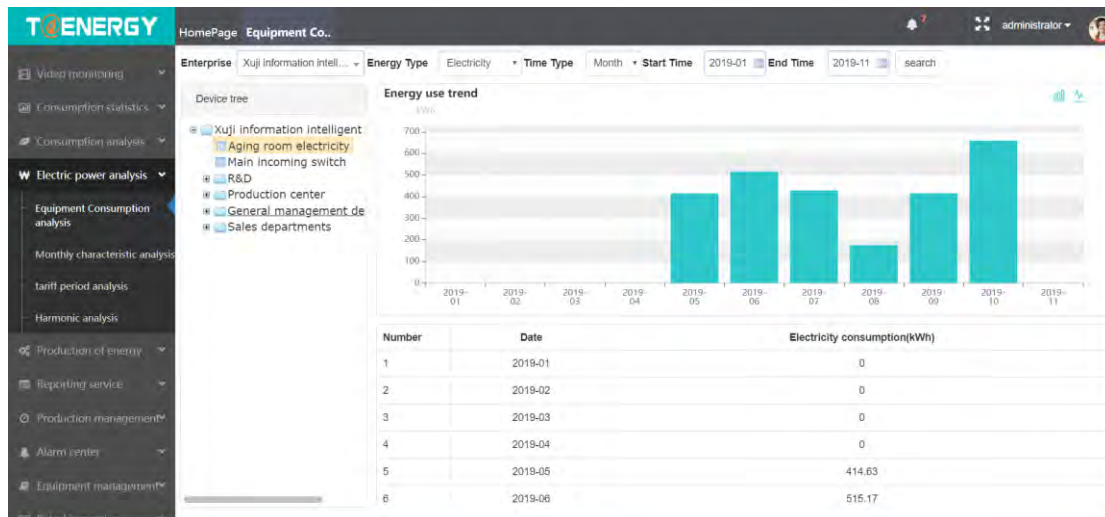
- At the top of the page, you can set the company to be queried, the date range, the specific start time and end time.
- The histogram in the upper chart shows the power factor of each month of the company being queried.
- The curves in the upper chart show the standard power factor, average electricity price (including power factor adjustment electricity bill), and average electricity price (excluding power factor adjustment electricity bill) in different colors (see legend).
 - ◆ The lower report summarizes the power factor related data. The data report details are explained as follows:
 - ◆ Serial number: report data serial number
 - ◆ Date: Selected date to be queried
 - ◆ Power factor: active power / apparent power
 - ◆ Power factor standard: The power factor standard specified by a country.
 - ◆ Power charges: Electricity bill based on power factor (units/yuan)
 - ◆ Average electricity price (including power charges): The average electricity price of the enterprise for the month, the electricity fee calculation includes the power charges (unit/yuan)
 - ◆ Average electricity price (excluding power charges): The average electricity price of the enterprise for the month, the electricity fee calculation does not include the power charges (unit/yuan).

7 Electric Power Analysis

It includes four modules: Equipment consumption energy analysis, load characteristics analysis, electricity price period analysis, power factor analysis. Detailed description below.

7.1 Equipment energy analysis

The equipment energy analysis module analyzes the energy consumption of all equipment under the enterprise during the selected query date, and displays it in the form of histogram and data report.



- The left lists the organization structure of the enterprise, including the enterprise name, the total incoming line, all departments, and all devices under each department.
- Choose the enterprise, energy type, time period through drop-down list box in the top.
- The upper histogram shows the total energy consumption (units / kWh) of the device during queried time.
- The lower report shows the energy consumption data of the device. The details data report means:
 - ◆ Serial number: report data serial number
 - ◆ Date: Queried time period
 - ◆ Power consumption: The total energy consumption (in kWh) of the equipment during this period.
 - ◆ Click the Export button at the top right of the report to export the report data to the local.

7.2 Load characteristic analysis

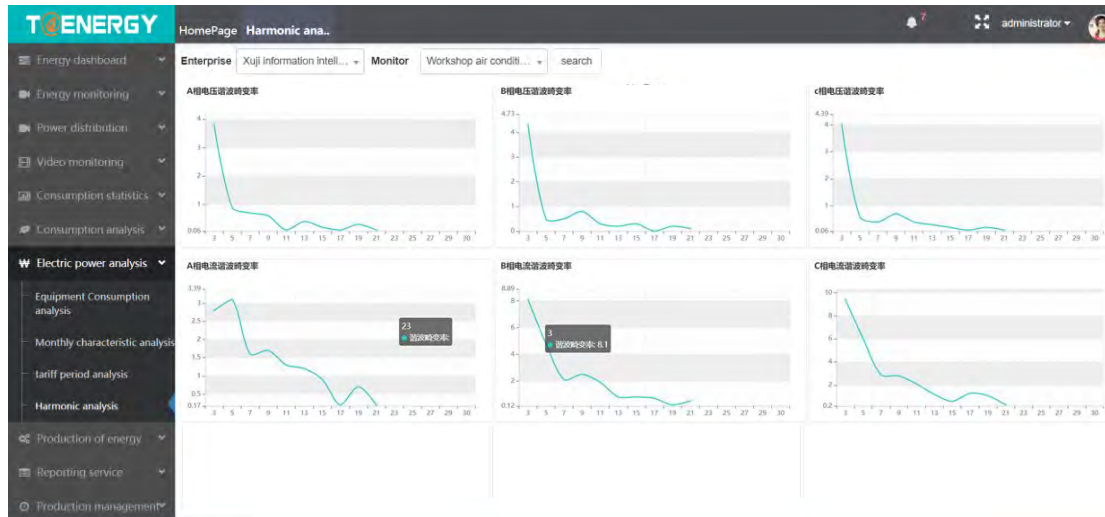
For module descriptions, see the “Energy Analysis – Comprehensive Analysis of Electricity Indicators – Load Characteristics Analysis” module description.

7.3 Electricity price period analysis

For the module description, please refer to the “Energy Analysis – Comprehensive Analysis of Electricity Index – Electricity Price Period Analysis” module description.

7.4 Harmonic analysis

The harmonic analysis module analyzes the phase-A phase-B phase-C voltage and current harmonic distortion rate.

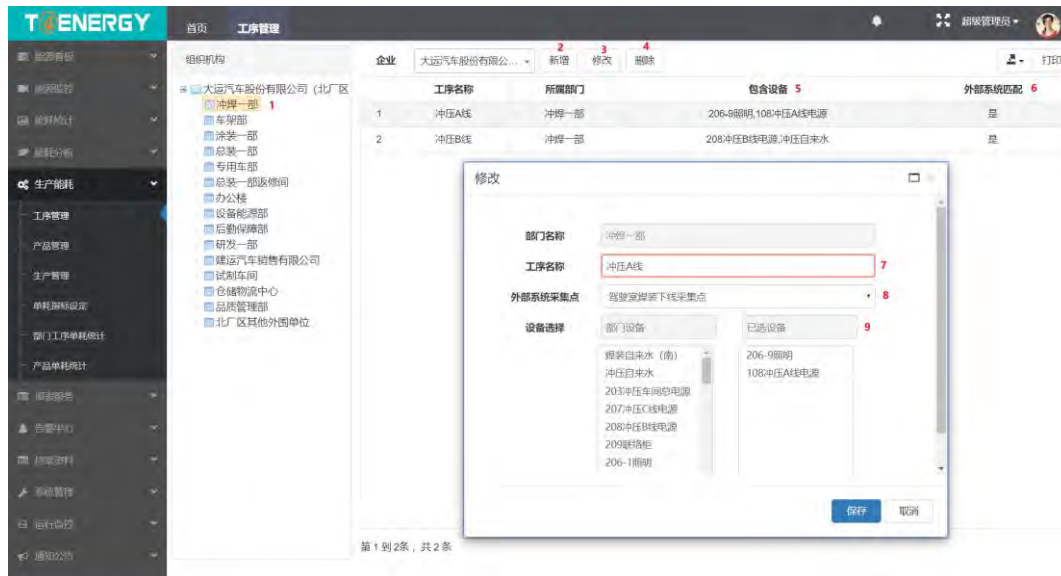


- Choose the enterprise, monitoring point by drop-down list box to query the harmonics.
- The upper curve shows phase A, B, C voltage harmonic distortion rate.
- The lower curve shows phase A, B, C current harmonic distortion rate.
- Harmonic Analysis show in graph form:
 - ◆ The x-axis represents the waveform of odd harmonics from 3 to 30 times.
 - ◆ The y-axis represents the harmonic distortion rate

8 Production energy management

8.1 Process management

This module is mainly used for processes addition, modification and deletion in each department. The equipment in this department can be selected as the monitoring point of the process, used for energy consumption statistics. The modify button can modify the "Process name" and "selected device". One department can't have the duplicate operation, the "selected device" cannot be empty; the delete button can delete the selected process. Note that the delete operation will delete all the metrics and production records for the process together.



- ① Device tree. Related process operations after selected the department.
- ② Add button. Click to add new process.
- ③ Modify button. Click to modify the process after selected.
- ④ Delete button. Click to delete the process.
- ⑤ Included devices。Display the devices included in this process。
- ⑥ External system matching. If the process was already matched the external system data collection node, the below will show “Yes”, otherwise show “No”.
- ⑦ Process name filling. Fill in/modify the process name.
- ⑧ External system data collection nodes list. If the system is already connected to an external system, the list will show all collection nodes of the external system.
- ⑨ Device selection list. Display all devices under the department, click to select/remove devices.

8.2 Production management

8.2.1 Product category subpage

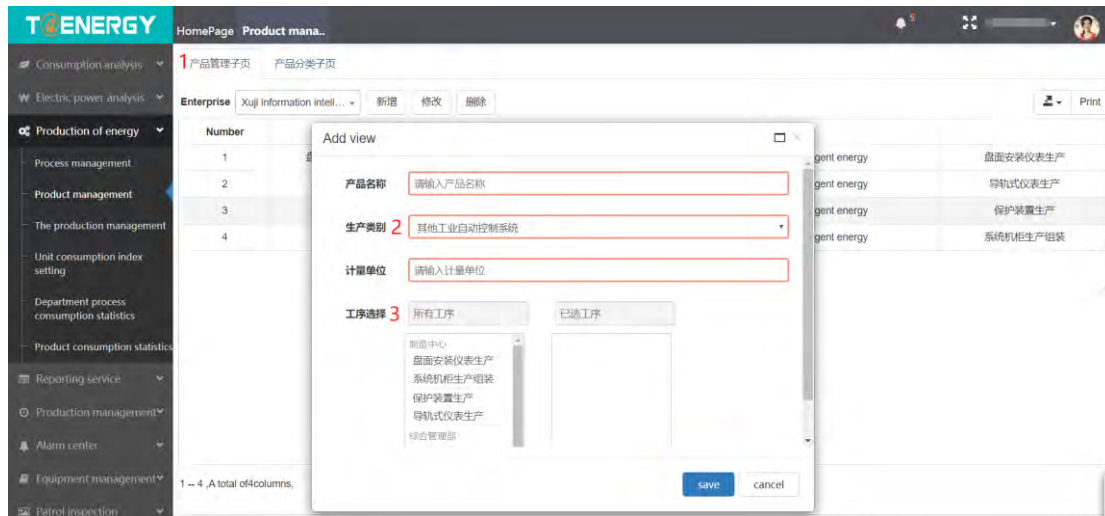
The screenshot shows the 'Product Management' subpage in the T3ENERGY system. A modal window titled '添加' (Add) is open, allowing the user to select a '生产类别名称' (Production Category Name) from a list. The list includes categories such as '农业产品' (Agricultural Products), '林业产品' (Forestry Products), '饲养动物及其产品' (Cultured Animals and Their Products), '渔业产品' (Fishery Products), '农、林、牧、渔服务业' (Agriculture, Forestry, Animal Husbandry, and Fishing Services), '煤炭采选产品' (Coal Mining and Selection Products), '石油和天然气开采产品' (Petroleum and Natural Gas Mining Products), '黑色金属矿' (Black Metal Mines), '有色金属矿' (Non-ferrous Metal Mines), '非金属矿' (Non-metallic Mineral Products), '其他矿产品' (Other Mineral Products), '农副食品、动、植物油制品' (Agricultural and Animal Products, and Animal and Vegetable Oil Products), and '食品及加工盐' (Food and Processing Salt). The '保存' (Save) button is highlighted.

The screenshot shows the 'Product Management' subpage in the T3ENERGY system. A table lists product categories with columns for 'Number', '生产类别代码' (Production Category Code), and '生产类别名称' (Production Category Name). The table contains 5 rows of data. The '生产类别名称' column is highlighted in blue. The '保存' (Save) button is highlighted.

Number	生产类别代码	生产类别名称
1	4101029900	其他工业自动控制系统
2	4103069900	其他配电系统电气安全检测与分析装置
3	4103060100	电能质量分析仪
4	4103010304	单相多功能电能表
5	4103010405	三相多功能电能表

- ② Product category subpage. Click on the sub-page to manage the product category.
- ② Production category device tree. Click once to select the specific production category name and number.

8.2.2 Product management subpage

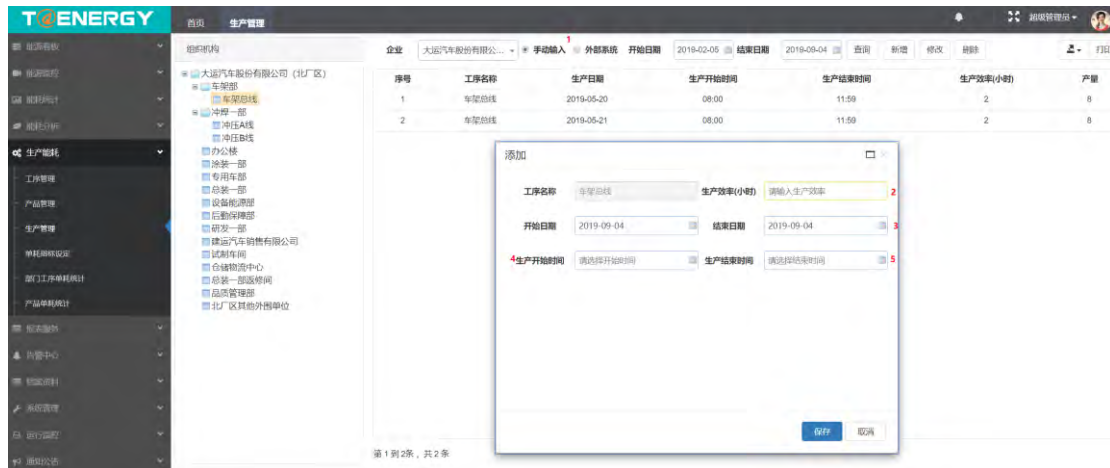


- ① Product Management Subpage. Click on the sub-page to manage the product.
- ② Production category list. The content in the list comes from the product categories established in 2.1.
- ③ Process selection list. This list shows all the completed processes, click once adding and removing them.

8.3 Production management

This module can set the production time for existing processes. Users can set multiple working time segments in batches. The start time is “XX:00” and the end time is represented by “XX:59”. For example, set [08: 00-11:59], it means the working time is four hours. Only one production record can be set in the same hour on the same day. The system will warn if the setting is repeated. Production efficiency (hours) means the process executed times per hour and can be accurate to two decimal places.

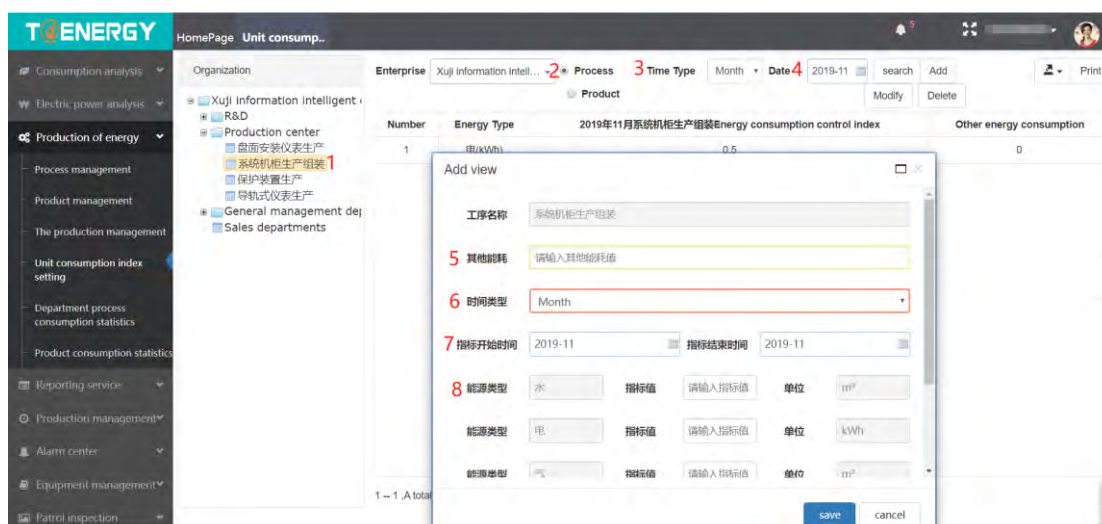
In the example, if the production efficiency (hour) is set to "2", then in the [08:00-11:59] time period, the number of process executions is $2 \times 4 = 8$. During the production time, the energy consumption of the process is the sum of each device's energy consumption in the process. At the same time, if the connection with the external system is successful, the production data imported from the external system can be queried, but the modification and deletion cannot be added.



- ① Data mode selection button. Selecting “Manual Input” displays the production record set manually, and “External System” is the production record obtained from the external system.
- ② Production efficiency input box. Hourly process operated time, support for retaining two decimal places.
- ③ Start date, end date selection box. Batch set the same production time and production efficiency during this time period.
- ④ Production start time selection box. You can choose 00 minutes for any hour to start as time.
- ⑤ Production end time selection box. You can choose 59 minutes for any hour as the end time.

8.4 Unit consumption index setting

In unit consumption index setting, the daily, monthly, and annual unit consumption index of the process can be added in batches, corresponding to the calculation of the daily, monthly, annual unit consumption statistics in the two sub-modules of “department unit consumption statistics” and “product unit consumption statistic”. Each index can be modified and deleted individually. When the department is clicked, the indexes of the department are equal to the sum of the indexes of all the processes. Similarly, the indexes of the products are equal to the sum of the indexes of the processes involved. The "Other Energy Consumption" field is mainly for the convenience of the user to adjust the value of the "Departmental Unit Consumption Statistics". The default value is 0.



- ① Process/ product device tree.
- ② Process/product switch button. When you select "Process", you can operate on the detailed indexes of the process; when you select "Product", you can view the automatically calculated product indexes.
- ③ Time type selection. Daily, monthly, annual can be selected.
- ④ Date selection. Date corresponding to ③ can be selected.
- ⑤ Other energy input. This is used with the two modules “Departmental Unit Consumption Statistics” and “Product Unit Consumption Statistics” to calculate the unit consumption. After calculating the production energy consumption, if the “other energy consumption” in the corresponding time type and date has a value, then the unit consumption will be the production energy consumption minus other energy consumption. If this input box has no value, "Other Energy Consumption" defaults to 0.
- ⑥ Time type selection. You can choose to add/modify the time type of the index in batches.
- ⑦ Index start time and end time. Selecting, adding or modifying the same index in batches.
- ⑧ Index input. You can input the system existing energy type index value. Index value will be involved in the actual consumption calculation and the percentage statistics of "consumption statistics department process" and "product consumption statistics".

8.5 Department process unit consumption statistics

Click on the department. The first table shows the list of all the process in the department.

“Production energy consumption” and “productivity” are calculated from the “production management” module. “Other energy consumption” and “unit consumption index” are obtained from the “unit consumption index setting” module. “Net production energy consumption” and “unit consumption”, “compared with the index” are calculated by formula.

The second table shows the energy consumption of the department. The “production energy consumption, other energy consumption, output, and unit consumption index” are equal to the sum of the process values, and others are also obtained through automatic calculation. The energy type is detected from the dictionary table. The specific data like energy consumption belongings, the department processes and process devices, energy types can be quired.

Formula:

Net production energy consumption = production energy consumption - other energy consumption

Unit consumption = net production energy consumption / output

Compared with index = (consumption - consumption indexes) / consumption indexes * 100%

The screenshot shows the 'Production center' energy consumption statistics for 2019-11. The table displays data for various production processes, including '盘面安装仪表生产', '系统机柜生产', '保护装置生产', and '导轨式仪表生产'. Each process row shows 'Production energy consumption', 'Other energy consumption', 'Net production energy consumption', 'production', 'consumption', and 'Consumption'.

process	Production energy consumption	Other energy consumption	Net production energy consumption	production	consumption	Consumption
盘面安装仪表生产	0	0	0	0	--	
系统机柜生产	0	0	0	0	--	
保护装置生产	0	0	0	0	--	
导轨式仪表生产	0	0	0	0	--	

Below the process table, there is a summary table for the 'Production center' showing 'Production energy consumption', 'Other energy consumption', 'Net production energy consumption', 'production', 'consumption', and 'Consumption'.

Department	Production energy consumption	Other energy consumption	Net production energy consumption	production	consumption	Consumption
Production center	0	0	0	0	--	

8.6 Product unit consumption statistics

The calculation principle of product unit consumption is like the unit consumption of the department. It is also the sum of the process values and the automatic calculation. The difference is that the "other energy consumption" is not calculated when calculating the unit consumption, 12.83 (kWh/set)=205.3 (kWh) /16 (set), consistent with the process "frame bus" (production energy/output). Product unit consumption calculation must ensure that all the processes for manufacturing this unit have a production record during the selected time. Otherwise the product can't be logically formed, and a warning will pop up.

Formula:

Compared with the index = (product consumption - unit consumption index) / unit consumption index * 100%

The screenshot shows the 'Product unit consumption' statistics for '太能汽车产品A' (T-ENERGY Car Product A) for the date 2019-05. The table displays data for the product, including '产品名称', '日期', '产品单位', '单位消耗', and '与指标对比'.

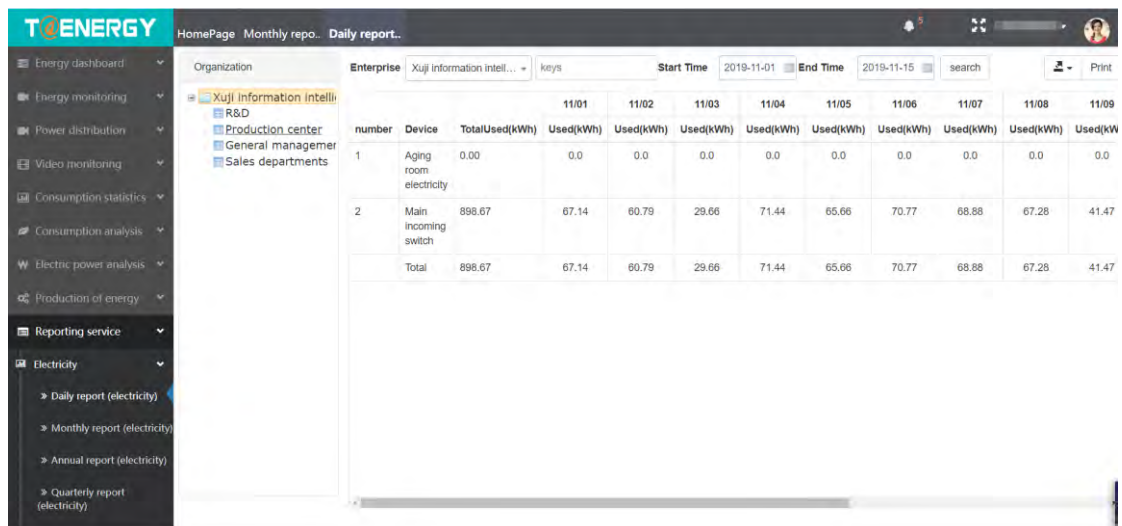
序号	产品名称	日期	产品单位	单位消耗	与指标对比
1	太能汽车产品A	2019-05	12.83 kWh/台	10.00 kWh/台	28.30%

9 Report service

The report service module is divided into water, electricity, gas (etc.) and statistical report sub-modules. Sub-modules also include daily, monthly, annual, quarterly, and group reports. The daily report counts the energy consumed by a company. or each device energy consumption under each department for a period (electricity refers to kwh, water refers to m³), monthly and annual. Statistical reports are same as report services.

9.1 Electricity

9.1.1 Daily report



		Enterprise Xuji information intelli... keys									
		Start Time	2019-11-01		End Time	2019-11-15		search			
		number	Device	TotalUsed(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)
1	Aging room electricity	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	Main Incoming switch	898.67	67.14	60.79	29.66	71.44	65.66	70.77	68.88	67.28	41.47
Total		898.67	67.14	60.79	29.66	71.44	65.66	70.77	68.88	67.28	41.47

First, the head is a variety of filter conditions, next to the enterprise is a drop-down list, you can freely choose the enterprise.

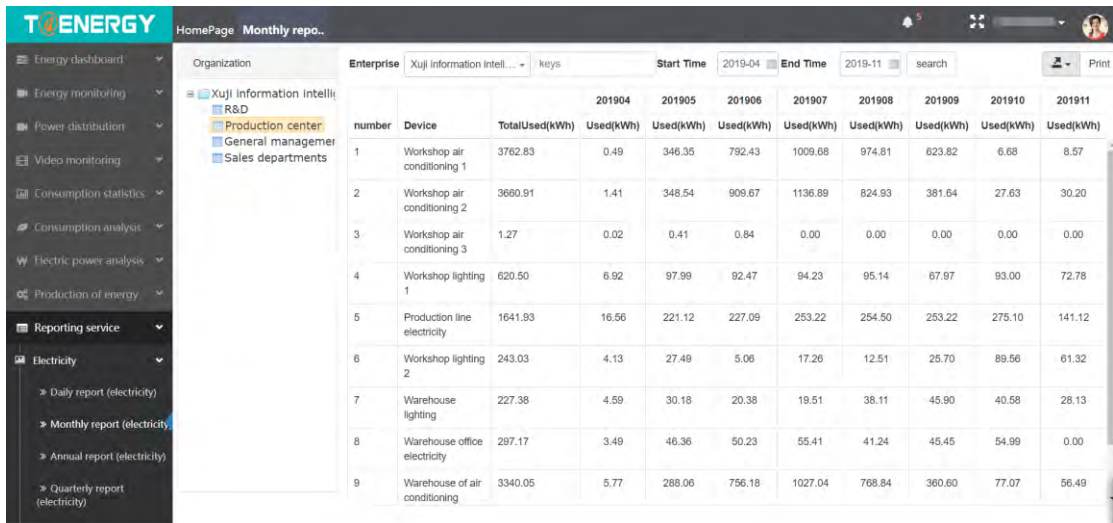
Start time and end time are time controls, you can freely choose the query time.

The left side is the enterprise organization tree. The organization structure shows the selected The various departments under the enterprise, the content area on the right.

The specific operation steps is:

Enterprise---department---start time and end time---search.

9.1.2 Monthly report

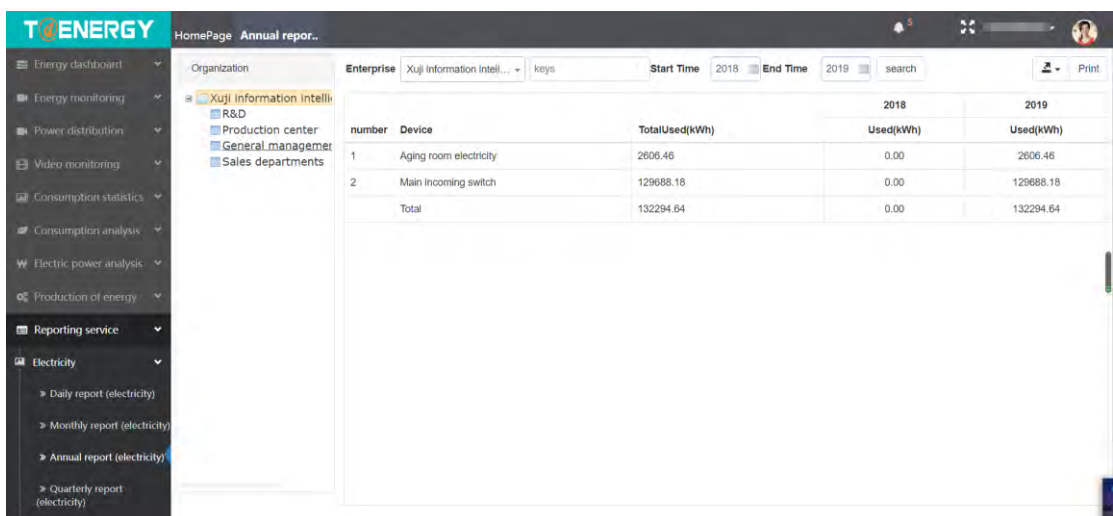


The screenshot shows the 'Monthly report' page in the T-ENERGY system. The left sidebar contains a navigation menu with options like 'Energy dashboard', 'Energy monitoring', 'Power distribution', 'Video monitoring', 'Consumption statistics', 'Consumption analysis', 'Electric power analysis', 'Production of energy', 'Reporting service', and 'Electricity'. The 'Reporting service' section is expanded, showing 'Daily report (electricity)', 'Monthly report (electricity)', 'Annual report (electricity)', and 'Quarterly report (electricity)'. The 'Monthly report (electricity)' option is selected. The main content area displays a table of energy consumption data for the month of April 2019. The table has columns for 'number', 'Device', 'TotalUsed(kWh)', and 'Used(kWh)' for each month from 201904 to 201911. The data is filtered by 'Enterprise' and 'Xuji Information Intell...'.

		201904	201905	201906	201907	201908	201909	201910	201911
number	Device	TotalUsed(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)	Used(kWh)
1	Workshop air conditioning 1	3762.83	0.49	346.35	792.43	1009.68	974.81	623.82	6.68
2	Workshop air conditioning 2	3660.91	1.41	348.54	909.67	1136.89	824.93	381.64	27.63
3	Workshop air conditioning 3	1.27	0.02	0.41	0.84	0.00	0.00	0.00	0.00
4	Workshop lighting 1	620.50	6.92	97.99	92.47	94.23	95.14	67.97	93.00
5	Production line electricity	1641.93	16.56	221.12	227.09	253.22	254.50	253.22	275.10
6	Workshop lighting 2	243.03	4.13	27.49	5.06	17.26	12.51	25.70	89.56
7	Warehouse lighting	227.38	4.59	30.18	20.38	19.51	38.11	45.90	40.58
8	Warehouse office electricity	297.17	3.49	46.36	50.23	55.41	41.24	45.45	54.99
9	Warehouse of air conditioning	3340.05	5.77	288.06	756.18	1027.04	768.84	380.60	77.07

In general, similar to the daily report, query the energy consumption information of the equipment under the enterprise or department in certain months.

9.1.3 Annual report



The screenshot shows the 'Annual report' page in the T-ENERGY system. The left sidebar is the same as in the monthly report view. The main content area displays a table of energy consumption data for the year 2018. The table has columns for 'number', 'Device', 'TotalUsed(kWh)', and 'Used(kWh)' for each year from 2018 to 2019. The data is filtered by 'Enterprise' and 'Xuji Information Intell...'.

		2018	2019
number	Device	TotalUsed(kWh)	Used(kWh)
1	Aging room electricity	2606.46	0.00
2	Main incoming switch	129688.18	0.00
	Total	132294.64	129688.18

Query energy consumption information of equipment under the company or department in certain years.

9.1.4 Quarterly report



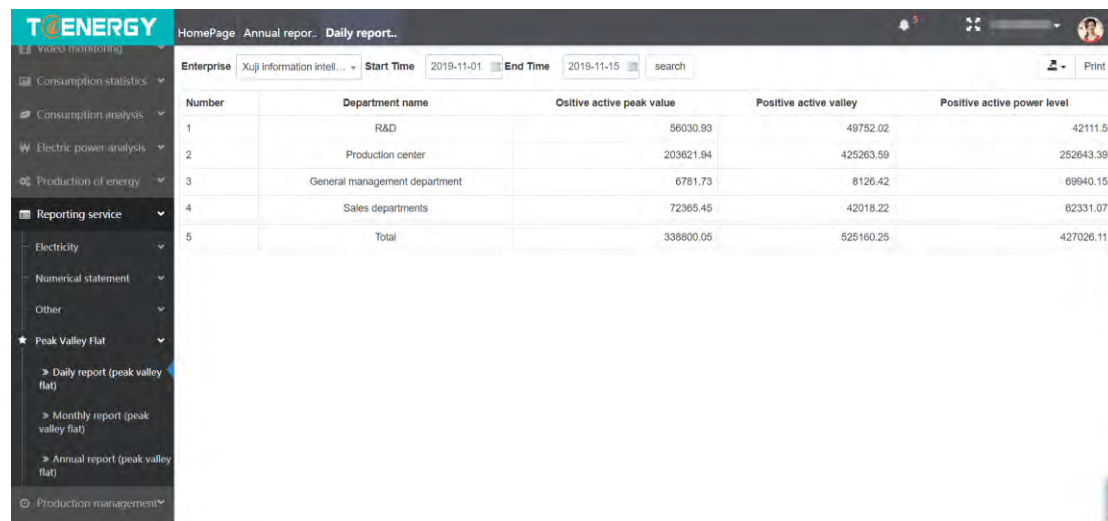
		2019年1季度	2019年2季度	2019年3季度	2019年4季度
序号	设备名称	用量(kWh)	用量(kWh)	用量(kWh)	用量(kWh)
1	老化房用电	0.00	929.80	661.82	0.00
2	总进线开关	0.00	9816.65	15794.44	0.00
	合计	0.00	10746.45	16456.26	0.00

Query energy consumption information of equipment under the enterprise or department in certain quarters.

9.2 Peak valley flat

9.2.1 Daily report (peak valley flat)

The interface is for displaying import active energy peak, valley, flat time data for each department of the day.



Number	Department name	Positive active peak value	Positive active valley	Positive active power level
1	R&D	56030.93	48752.02	42111.5
2	Production center	203621.94	425263.59	252643.39
3	General management department	6781.73	8126.42	69940.15
4	Sales departments	72365.45	42018.22	62331.07
5	Total	338800.05	525160.25	427026.11

9.2.2 Monthly report (peak valley flat)

The interface is for displaying import active energy peak, valley, flat time data for each department of the month.

Number	Department name	Ositive active peak value	Positive active valley	Positive active power level
1	1 # transformer	0	0	0
2	2 # transformer	0	0	0
3	3 # transformer	0	0	0
4	Total	0.00	0.00	0.00

9.2.3 Annual report (peak valley flat)

The interface is for displaying import active energy peak, valley, flat time data for each department of the year.

9.3 Statistical report

9.3.1 Hourly report

This page is for hourly data statistical display of enterprises and departments, as follows. The left side is the device tree, and the top is the time and energy type selection. After the selection, the data for each hour of the day will be listed.

Item/Time	Total power		Peak electric degree		Valley electric degree		Flat electric degree	
	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh
01:00	144844.64	0.89	56634.72	0.00	7908.97	0.89	77959.18	0.00
02:00	144845.56	0.92	56634.72	0.00	7909.89	0.92	77959.18	0.00
03:00	144846.44	0.88	56634.72	0.00	7910.77	0.88	77959.18	0.00
04:00	144847.34	0.90	56634.72	0.00	7911.68	0.90	77959.18	0.00
05:00	144848.23	0.89	56634.72	0.00	7912.57	0.89	77959.18	0.00
06:00	144849.09	0.86	56634.72	0.00	7913.43	0.86	77959.18	0.00
07:00	144850.11	1.01	56634.72	0.00	7914.44	1.01	77959.18	0.00
08:00	144851.24	1.13	56634.72	0.00	7915.57	1.13	77959.18	0.00
09:00	144854.98	3.74	56638.46	3.74	7915.57	0.00	77959.18	0.00
10:00	144860.13	5.15	56643.62	5.16	7915.57	0.00	77959.18	0.00
Total	144860.13	16.37	56643.62	8.90	7915.57	7.47	77959.18	0.00

9.3.2 Daily report

Query the data for the selected time period. The data can be queried for up to 31 days. If it is exceeded, the query cannot be performed. The interface is as follows:

T-ENERGY

video monitoring

Consumption statistics

Consumption analysis

Electric power analysis

Production of energy

Reporting service

Electricity

Numerical statement

Hourly report

Daily report

Weekly report

Monthly report

Quarterly report

Annual report

Settlement report

HomePage

Daily report

OrganizationEnterprise

Xuji information intelligence

Energy TypeElectricity

Start Time2019-11-01

End Time2019-11-15

Print

Xuji information intelligence

search

Item/Date	Total power		Peak electric degree			Valley electric degree			Bottom of table
	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh	Proportion	Bottom of table	Electricity/KWh	Proportion	
2019-11-01	144012.21	67.14	56280.88	27.91	0.42	7801.86	5.62	0.08	7758
2019-11-02	144073.00	60.79	56309.37	28.49	0.47	7810.65	8.79	0.14	7781
2019-11-03	144102.66	29.66	56319.52	10.14	0.34	7819.53	8.88	0.30	7762
2019-11-04	144174.10	71.44	56347.84	28.32	0.40	7828.64	9.11	0.13	7765
2019-11-05	144239.76	65.66	56375.39	27.55	0.42	7836.67	8.03	0.12	7768
2019-11-06	144310.53	70.77	56403.50	28.11	0.40	7846.38	9.70	0.14	7771
2019-11-07	144379.41	68.88	56431.48	27.98	0.41	7854.82	8.44	0.12	7775
Total	144843.75	898.67	56634.72	381.75	0.42	7908.08	111.85	0.12	7795

9.3.3 Weekly report

Display per week energy usage.

T-ENERGY

HomePage Weekly repor...

Electric power analysis

Production of energy

Reporting service

Electricity

Numerical statement

Hourly report

Daily report

Weekly report

Monthly report

Quarterly report

Annual report

Settlement report

Other

Peak Valley Flat

Organization

Enterprise 东风德纳车桥有限公司

Energy Type Electricity

Start Time 2019年46周

End Time 2019年46周

search

2019年46周

40263.00

600.19

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

9.3.4 Monthly report

Statistical display energy usage of per month, as follows

T ENERGY HomePage Monthly repo...

Organization: Enterprise Xuji information intelli... Energy Type: Electricity Start Time: 2019-01 End Time: 2019-11 search Print

Reporting service: Electricity Numerical statement Hourly report Daily report Weekly report Monthly report Quarterly report Annual report Settlement report Other Peak Valley Flat

Organization: Xuji information intelli... Aging room electr Main incoming swi R&D Production center General managem Sales department

Item/Date	Total power		Peak electric degree			Valley electric degree			Bottom of t
	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh	Proportion	Bottom of table	Electricity/KWh	Proportion	
2019-01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019-02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019-03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019-04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019-05	114553.41	102247.81	44296.70	-56612.06	-0.55	6221.79	2099.96	0.02	61923.7
2019-06	121610.04	7056.62	47059.85	2763.16	0.39	6528.38	306.58	0.04	65832.4
2019-07	130359.37	8505.85	50621.62	3440.39	0.40	6804.56	271.26	0.03	70676.3
2019-08	137166.06	6806.67	53379.32	2757.69	0.41	7013.81	209.25	0.03	74440.2
2019-09	141638.23	4472.15	55325.93	1946.61	0.44	7343.20	329.39	0.07	76627.2
2019-10	143945.07	2306.87	56252.97	927.04	0.40	7796.24	453.04	0.20	77554.0
2019-11	144843.75	898.67	56634.72	381.75	0.42	7908.08	111.84	0.12	77959.1
Total	144843.75	132294.64	56634.72	-44395.42	-0.34	7908.08	3781.32	0.03	77959.1

9.3.5 Quarterly report

Query the energy usage of each quarter, as follows:

T ENERGY HomePage Quarterly re...

Organization: Enterprise Xuji information intelli... Energy Type: Electricity Start Time: 2018年4季 End Time: 2019年4季 search Print

Reporting service: Electricity Numerical statement Hourly report Daily report Weekly report Monthly report Quarterly report Annual report Settlement report Other Peak Valley Flat

Organization: Xuji information intelli... Aging room electr Main incoming swi R&D Production center General managem Sales department

Item/Date	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh	Proportion	Bottom of table	Electricity/KWh	Proportion	Bottom of t
2018年4季	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019年1季	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019年2季	121610.04	10995.99	47059.85	4264.23	0.39	6528.38	588.42	0.05	65832.42
2019年3季	141638.23	20028.19	55325.93	8266.07	0.41	7343.20	814.83	0.04	76627.29
2019年4季	144508.33	2870.10	56489.74	1163.81	0.41	7872.39	529.19	0.18	77804.44
Total	144508.33	33894.28	56489.74	13694.11	0.40	7872.39	1932.44	0.06	77804.44

9.3.6 Annual report

Query energy usage within one year, as follows:

The screenshot shows the 'Annual report' page in the T-ENERGY system. The left sidebar lists various reporting services, with 'Annual report' selected. The main area displays a table of electricity usage data for the year 2019. The table is organized into three main sections: 'Total power', 'Peak electric degree', and 'Valley electric degree'. Each section has a 'Bottom of table' column and an 'Electricity/KWh' column. The 'Total power' section also includes a 'Proportion' column. The 'Peak electric degree' and 'Valley electric degree' sections also include a 'Proportion' column. The table shows data for the year 2019, with a total electricity usage of 132294.64 KWh. The peak electric degree is -44395.41, and the valley electric degree is 49616.07. The proportion of peak electric degree is -0.34, and the proportion of valley electric degree is 0.03. The table also shows a 'Bottom of table' value of 934115.93 for the total power, and 505013.3 for the valley electric degree.

Item/Date	Total power		Peak electric degree		Valley electric degree	
	Bottom of table	Electricity/KWh	Bottom of table	Electricity/KWh	Proportion	Bottom of table
2019	934115.93	132294.64	363571.11	-44395.41	-0.34	49616.07
						3781.32
						0.03
						505013.3
Total	934115.93	132294.64	363571.11	-44395.41	-0.34	49616.07
						3781.32
						0.03
						505013.3

9.3.7 Settlement report

9.3.7.1 Daily settlement report

Statistical display each energy type used by each department in the selected day time period.
This data is consistent with the data of the energy dashboard flow diagram.

The screenshot shows the 'Daily statement' page in the T-ENERGY system. The left sidebar lists various reporting services, with 'Daily statement' selected. The main area displays a table of electricity usage data for a specific day. The table is organized into three main sections: 'Number', 'Energy type', and 'Department'. Each section has a 'Number' column, an 'Energy type' column, and a 'Department' column. The table shows data for the year 2019, with a total electricity usage of 141.12 KWh. The energy type is '办公用电' (Office electricity), and the department is '制造中心' (Manufacturing center). The table also shows a 'Number' value of 141.12 for the total electricity usage, and 0.00 for the energy type and department. The table also shows a 'Number' value of 141.12 for the total electricity usage, and 0.00 for the energy type and department.

Number	Energy type	Department	Electricity/KWh	Proportion	Bottom of table
1	办公用电	制造中心	141.12	0.00	0.00
2		研发部	54.72	0.00	0.00
3		综合管理部	78.00	0.00	0.00
4		销售部	33.90	0.00	0.00
5	动力	制造中心	0.00	0.00	0.00
6		许继信息智慧能源	0.00	70.00	0.00
7	照明	制造中心	162.23	0.00	0.00
8		研发部	51.90	0.00	0.00
9		销售部	51.06	0.00	0.00
10	空调	制造中心	95.26	0.00	0.00
11		研发部	2.90	0.00	0.00
12		综合管理部	6.77	0.00	0.00
13		销售部	22.41	0.00	0.00
14			701.27	70.00	0.00

9.3.7.2 Monthly settlement report

Query the usage of each energy type in each department within the selected month period

Number	Energy Type	Department	Usage 1	Usage 2	Usage 3
1	办公用电	制造中心	1939.10	0.00	0.00
2		研发部	1503.85	0.00	0.00
3		综合管理部	1768.57	0.00	0.00
4		销售部	1489.37	0.00	0.00
5	动力	制造中心	23.20	0.00	0.00
6		许继信息智慧能源	2606.46	1020.00	0.00
7	照明	制造中心	1090.91	0.00	0.00
8		研发部	625.63	0.00	0.00
9		销售部	415.93	0.00	0.00
10	空调	制造中心	10765.06	0.00	0.00
11		研发部	3536.42	0.00	0.00
12		综合管理部	4251.61	0.00	0.00
13		销售部	3046.61	0.00	0.00
14			33062.72	1020.00	0.00

9.3.7.3 Annual settlement report

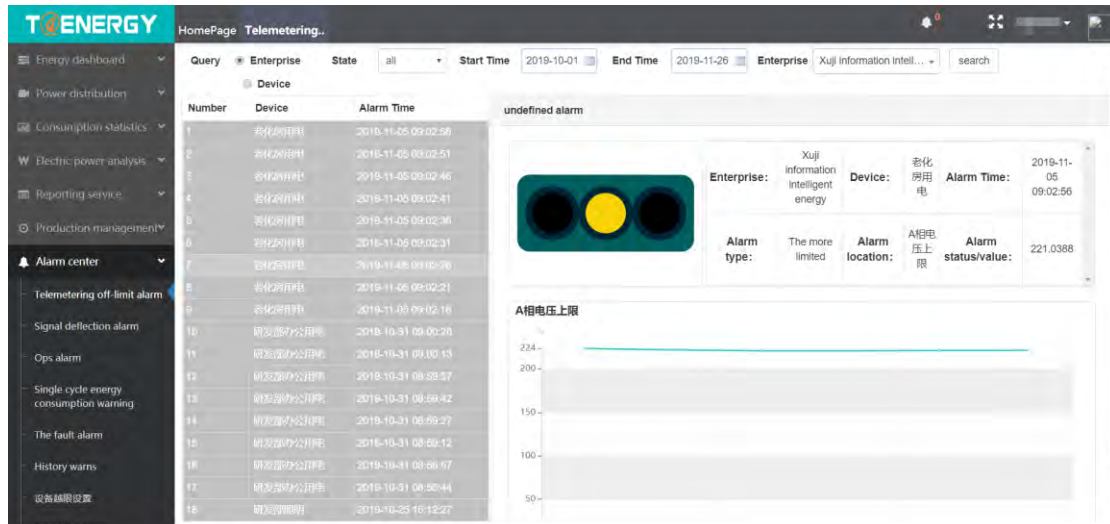
Query the usage of each energy type for each department in the selected year.

Number	Energy Type	Department	Usage 1	Usage 2	Usage 3
1	办公用电	制造中心	1939.10	0.00	0.00
2		研发部	1503.85	0.00	0.00
3		综合管理部	1768.57	0.00	0.00
4		销售部	1489.37	0.00	0.00
5	动力	制造中心	23.20	0.00	0.00
6		许继信息智慧能源	2606.46	1020.00	0.00
7	照明	制造中心	1090.91	0.00	0.00
8		研发部	625.63	0.00	0.00
9		销售部	415.93	0.00	0.00
10	空调	制造中心	10765.06	0.00	0.00
11		研发部	3536.42	0.00	0.00
12		综合管理部	4251.61	0.00	0.00
13		销售部	3046.61	0.00	0.00
14			33062.72	1020.00	0.00

10 Alarm center

10.1 Telemetry over-limit alarm

This module queries and displays the device over-limit alarm information.



1 enterprise / device selection button. When you click “Enterprise”, you can select the enterprise in the drop-down box of the enterprise marked 5; when you click “Device”, you can select the enterprise in the drop-down box of the enterprise. Also select the device included in the enterprise at the drop-down box of the device marked 6.

2 status drop down box. You can select the alarm records of the three states "Unprocessed" (yellow) / "Processed" (gray) / "All" to view.

3 Start time selection bar. Select the start date of the query range, which is actually 00:00 for that date.

4 End time selection bar. Select the end date of the query range, which is actually 23:59 for that date.

5 enterprise drop-down box. Show all businesses under this user.

6 device drop-down box. Show all devices under the selected enterprise.

7 alarm list. Click on the record in the alarm list, the record will change from yellow to gray, 8 alarm details will display the detailed information of the record, and 9 graph will show the curve change of the record.

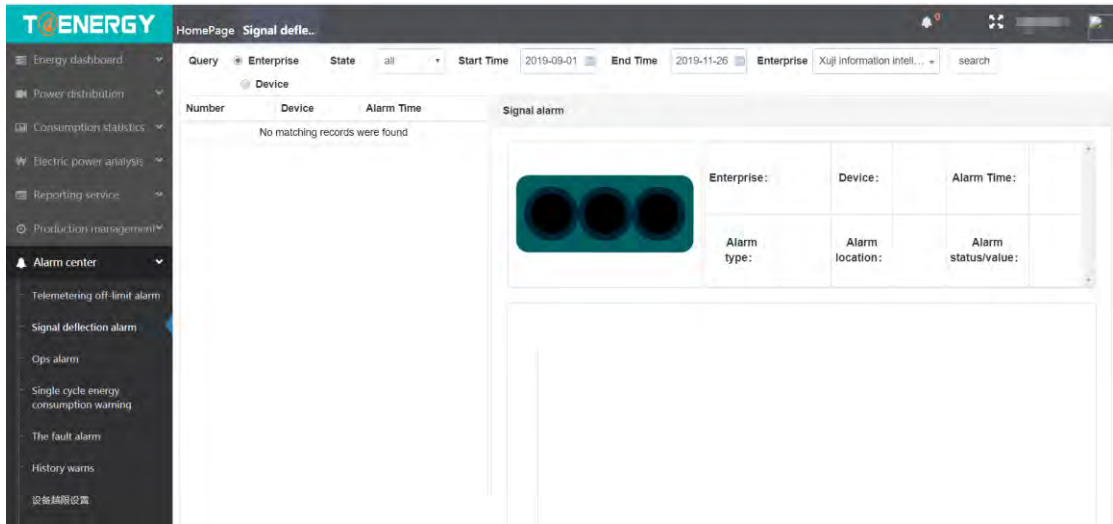
8 alarm details. Displays the enterprise, device, alarm time, alarm type, alarm location, and alarm status/value in the alarm record.

9 graph. Displays the coordinate curve formed by the monitoring value, set value, and time of the alarm record. The time is the abscissa, the monitoring unit is the ordinate, the green line is the detected value, and the red line is the set upper and lower limits.

10.2 Switch status change alarm

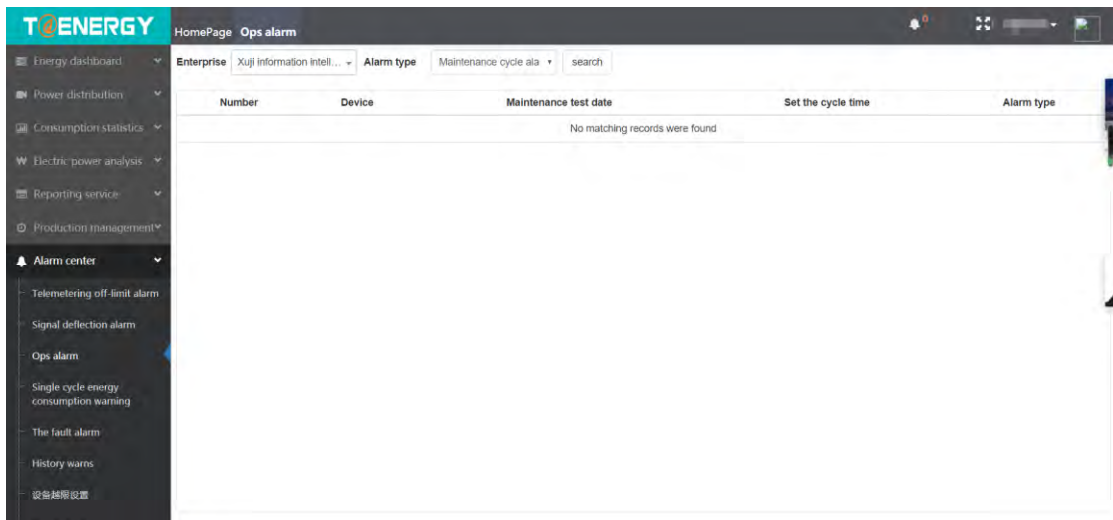
This module queries and displays the switch status change alarm information. Using this module requires the meter to have DI/DO, which can then be implemented by configuring it in the gateway and synchronizing variables in the system. When the meter detects a change in the switch status, the module will record the corresponding alarm information.

For the function layout, please refer to the "Telemetry over-limit alarm" module.



10.3 Operation and maintenance alarm

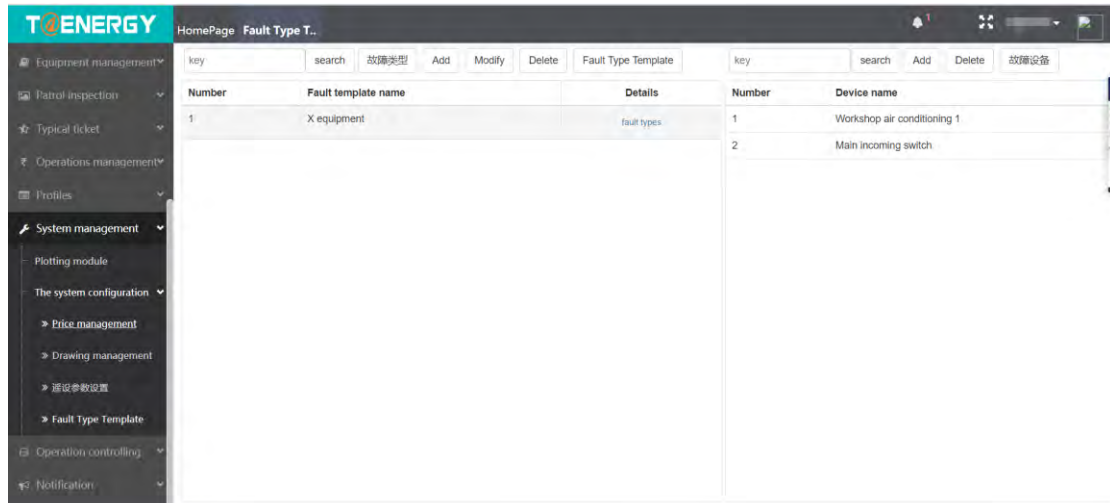
This module is under development and is temporarily not supported.



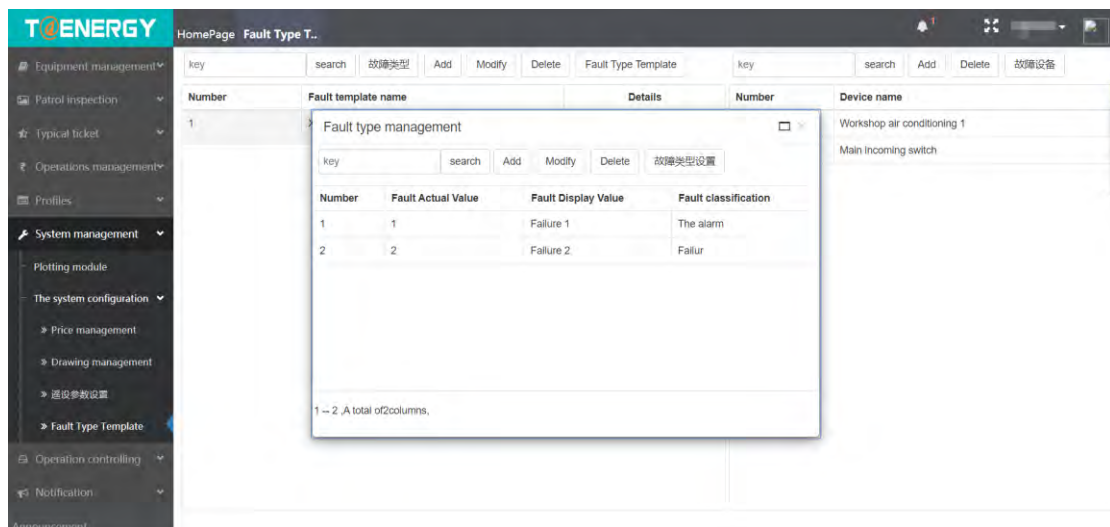
10.4 Fault alarm

This module can display customized fault alarm information.

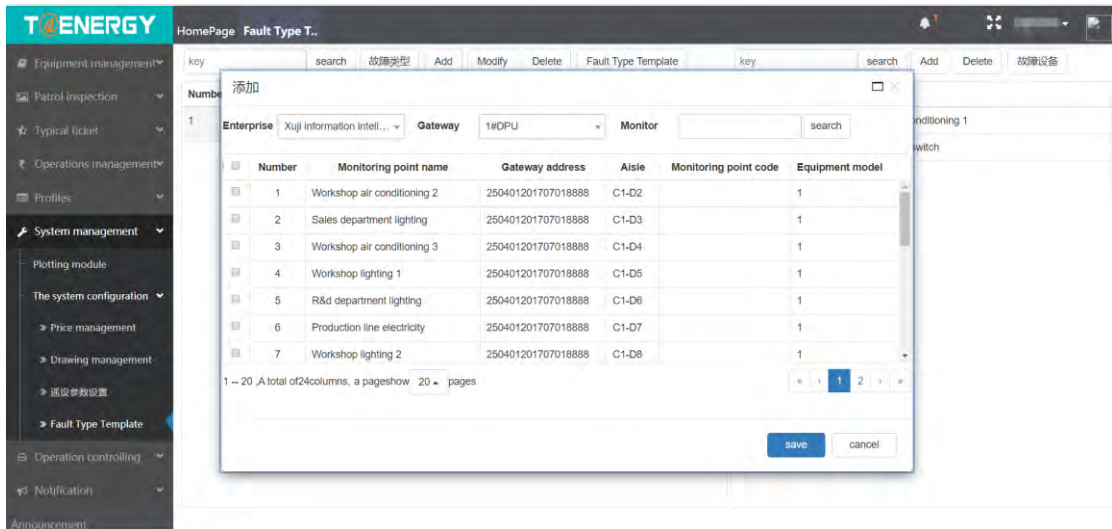
First, this module needs to be used in conjunction with System Management - System Configuration - Fault Type Template. It is required to establish related fault information in the "Fault Type Template" first.



- ①Query the fault template. Enter the word contained in the fault template for query
- ②Template added button. Click the button to pop up the template add box to fill in the new template name.
- ③Template modification button. Click the button to modify an existing template
- ④Template delete button. Click the button to delete an existing template
- ⑤Fault type setting button. Manage fault types, such as adding, modifying, and deleting. Using this function requires that the actual value of the fault transmitted by the gateway is known, and then the actual value of the fault is associated with the fault display value and the fault type is selected, so that the system can convert to the actual value of the fault when it is received. Defined fault display value to achieve fault alarm function.

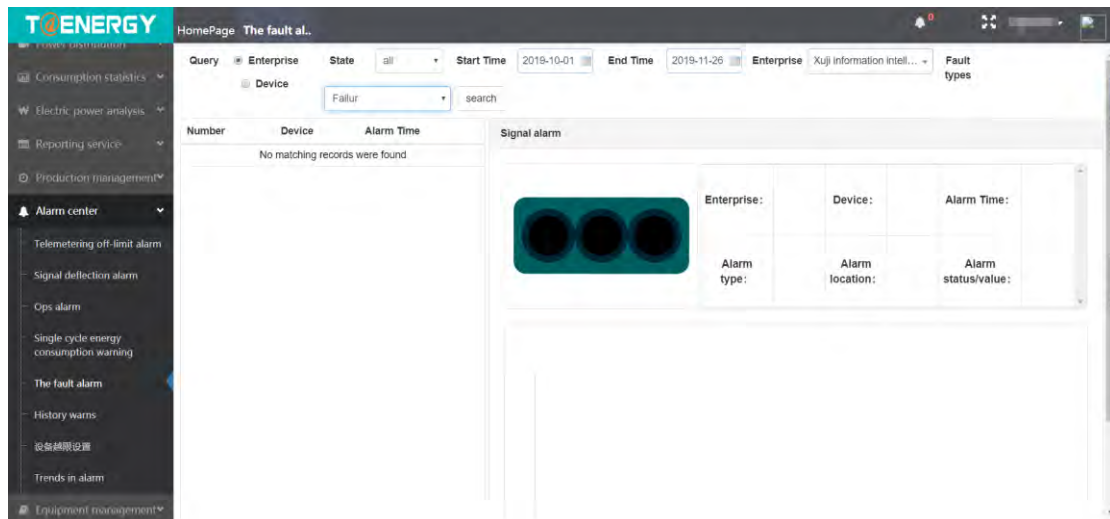


- ⑥Query the device that uses the fault template.
- ⑦Add a device button. Add a device that uses a template.
- ⑧ Remove device button. Delete a device that uses a template.



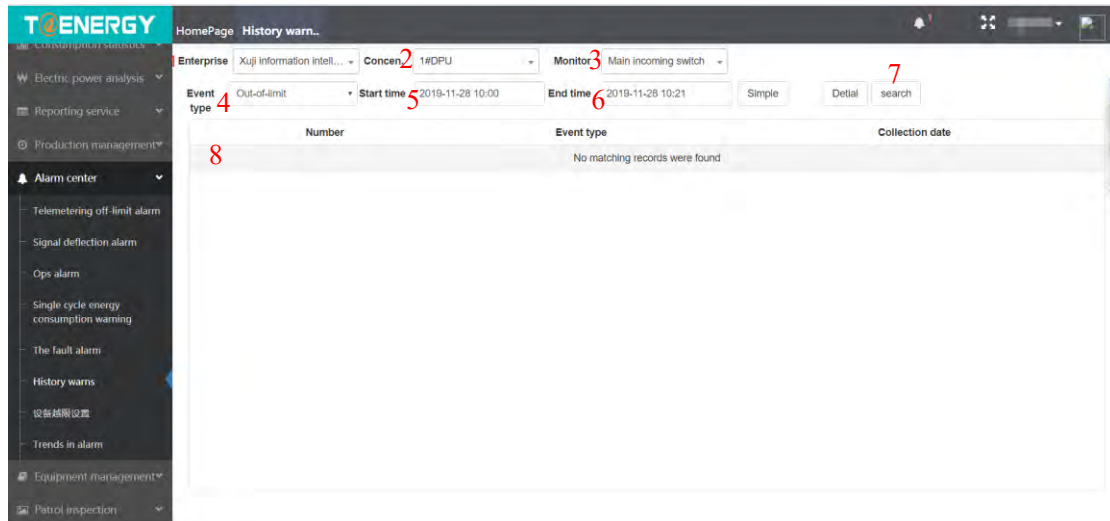
⑨

Once the setup and synchronization is complete, you can use the "Fault Alert" feature. For the function layout of the "Fault Alarm", please refer to the "Telemetry Over Limit Alarm" module.



10.5 Historical event alarm

This module can query each type of alarm record for a specific device (within a day).



- ①Enterprise drop-down box. Show all companies under user rights.
- ②Concentrator drop-down box. Display all gateways (concentrators) under selected enterprises.
- ③Monitor point drop-down box. Display all monitoring points (devices) under the selected concentrator.
- ④ Event type drop-down box. Contains three types of "over limit", "State change" and "fault".
- ⑤Start time selection.
- ⑥End time selection. (The start time and end time interval cannot exceed one day).
- ⑦Query button. When all the above query conditions are set, click here to query.
- ⑧The subtable displays the button. After all the records are displayed, click the “+” sign in the first column of the record to display the details of the record in the pop-up sub-table, such as “data item description”, “value”, “remarks”.

10.6 Device over limit setting

This module is used with the "telemetry over-limit alarm". In this module, the upper and lower limits of the parameter are set. When the monitoring data exceeds the limit, alarm data will be generated. The set alarm data items are: voltage, current, power, power factor, harmonic distortion rate, ambient temperature, and unbalance.



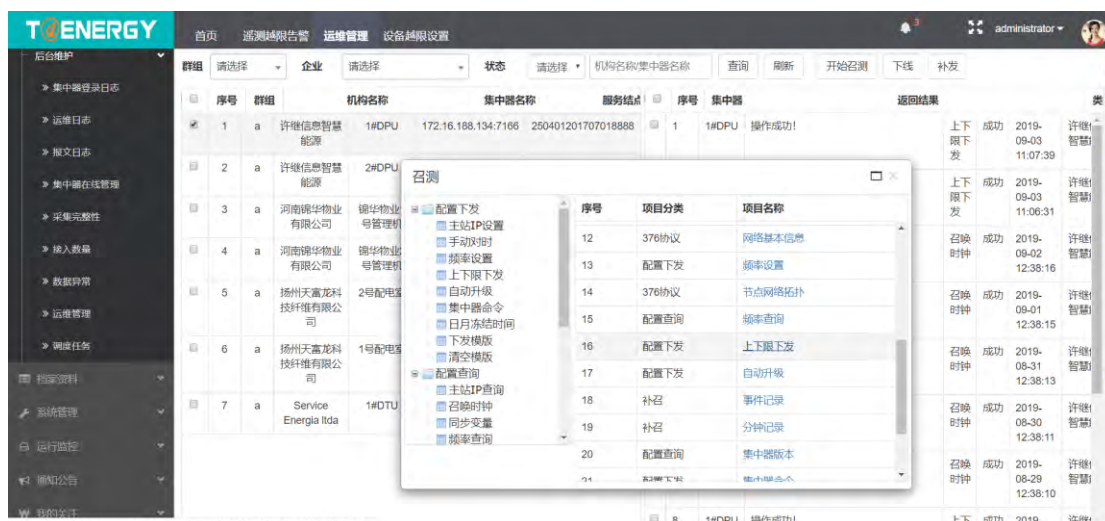
①Device tree. Click on the device, the interface will display the upper and lower limit records already set by the device, or add/modify the record of the device after clicking.

②Add button. Click to generate a new record.

③Save button. After filling in the recorded data, click this button to save.

④Delete button. After selecting a record, click this button to delete it.

After generating a new record or deleting an old record, you need to select the concentrator related to the record in the Operation and Maintenance Management - Background Maintenance - Operation and Maintenance Management interface, click "Start Calling", and click "Upper and Lower Limit Delivery". Once determined, the system can perform/deactivate the alarm function based on this record.



11 System Management

11.1 Module management

This function is to manage all the modules under this account. When entering this module, the following interface will appear. The left side shows the device tree of the module level. The right

side shows all the first level modules, and the upper part is the right module. Some function buttons for operation, click on the device tree on the left to display the secondary module under the first-level module, and also have three-level modules under some secondary modules.




序号	模块代码	模块名称	链接地址	排序	模块类型	是否启用
6	26	能耗分析		6	非叶子节点	禁用
7	29	电能分析		7	非叶子节点	禁用
8	39	生产能耗		8	非叶子节点	禁用
9	21	报表服务		8	非叶子节点	禁用
10	07	告警中心		10	非叶子节点	禁用
11	30	设备管理		11	非叶子节点	禁用
12	31	巡回检查		12	非叶子节点	禁用
13	34	典型票		13	非叶子节点	禁用
14	32	运维管理		14	非叶子节点	禁用
15	33	档案资料		16	非叶子节点	禁用
16	01	系统管理		17	非叶子节点	禁用
17	20	运行监控		20	非叶子节点	禁用
18	25	通知公告		21	非叶子节点	禁用
19	40	我的关注		23	非叶子节点	禁用

If we enter a secondary module, but want to operate on the primary module, we need to exit this module and re-enter

①Status Query: There are two states: Enabled and Disabled. The enabled state is to allow this module to be displayed in the system, and then we can use the module directly. Disabling the state hides the module. And the module is not available at this time.

②Add a new module: Add a new module, click on the first-level module page, it will add a first-level module by default, select the first-level module and click Add, it will add a secondary module under the first-level module. The interface is as follows. At this time, fill in the corresponding module information. (This feature will generally be added by our company's developers, and don't worry if there are any unclear places)



③Modify the module: If the function information of our new module or an old module is incorrect, we can use this function to modify the information. Select the module you want to modify, click Modify Module, the following interface will pop up, and you can add the information you want to modify.

修改

模块名称* 统计分析报表

模块图标 

模块类型 非叶子节点 启用标志 ☒

链接地址 请输入链接地址

是否显示 显示 显示顺序* 9

模块描述 请输入不多于60字符

保存 取消

④Delete module: Select the module to be deleted, and then click Delete. There will also be some special cases. For example, when deleting, it will prompt “The submodule under this module cannot be deleted” . In this case, you need to select this module in the device tree on the left. After clicking, the right side will show that there are some sub-modules under this module. After deleting these sub-modules, the module can be deleted.

11.2 SMS management

(the abnormal information of the assigned device is sent to the specified user)

T@ENERGY 首页 短信管理

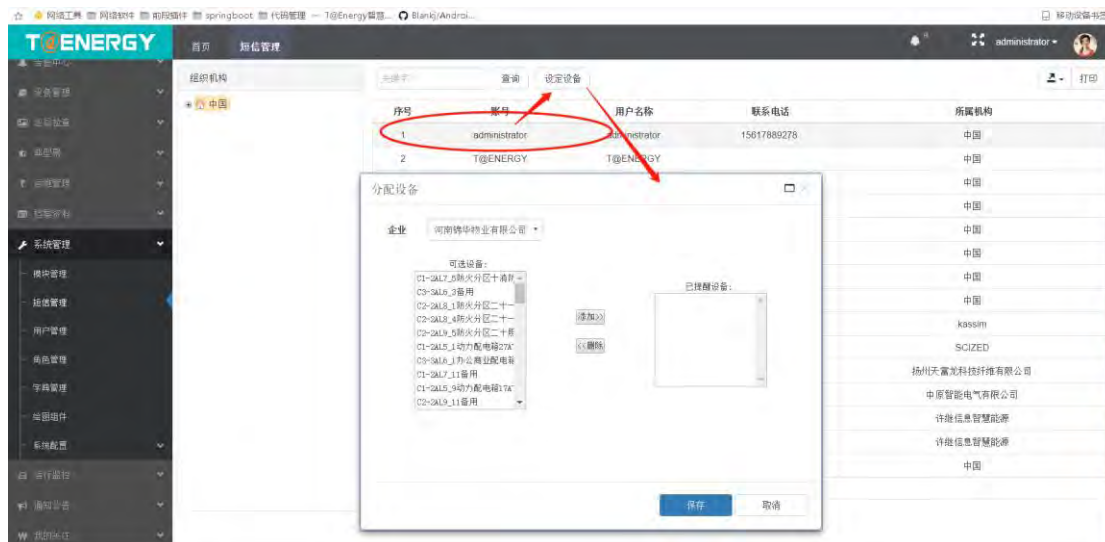
组织机构 中国

添加 删除 重置 设置

序号	账号	用户名称	联系电话	所属机构
1	administrator	administrator	15617089278	中国
2	T@ENERGY	T@ENERGY		中国
3	T@Power	T@Power		中国
4	T@Data	T@Data		中国
5	compere	compere		中国
6	yhghds	yhghds		中国
7	SMX01	SMX01	18848035969	中国
8	test	test	18838136363	中国
9	kassim	kassim		kassim
10	SCIZED	SCIZED		SCIZED
11	yzff	yzff		扬州天富龙科技股份有限公司
12	ZYZN	ZYZN		中国智能电气有限公司
13	HBVCXN	HBVCXN		许继信息智慧能源
14	HBVCXN1	HBVCXN1		许继信息智慧能源
15	cestr	cestr		中国
16	lida	lida		Brazil

第 1 到 16 条, 共 16 条 电话 20 + 页

Set the device (1-select the user, 2-click the set device button, 3-the bullet box for the assigned device appears, 4-select the device for the assignment, 5-submit).



11.3 User Management

The user management page is a page for managing the accounts that can be logged into the system. After entering the page, the following interface appears. Users and roles are used together. The specific process is as follows:

- 1- Create a role first and assign permissions to the role.
- 2- Create an account and assign a role to the account.
- 3-Distribute the enterprise and allocate equipment. (You need to add a role to the role management before using user management).

组织机构

- 中国
 - 河北省
 - 江苏省
 - 安徽省
 - 山东省
 - 河南省
 - 广西壮族自治区
 - Else Countries

关键字 查询 新增 修改 删除 分配角色 密码重置 分配企业 分配设备 打印

序号	账号	用户名称	状态	联系电话	创建时间	皮肤样式	默认主页
1	administrator	administrator	正常	15617889278		default	/index.do
2	T@ENERGY	T@ENERGY	正常		2019-04-29		
3	T@Power	T@Power	正常		2019-04-30		
4	T@Data	T@Data	正常		2019-04-30		
5	compere	compere	正常		2019-04-30		
6	yhghds	yhghds	正常		2019-05-13		
7	SMX01	SMX01	正常	18848835969	2019-05-22		
8	test	test	正常	18838136363	2019-05-22		
9	kassim	kassim	正常		2019-05-23		
10	SCIZED	SCIZED	正常		2019-05-23		
11	yztfl	yztfl	正常		2019-07-15		
12	ZYZN	ZYZN	正常		2019-07-17		
13	HBVCXN	HBVCXN	正常		2019-08-09		
14	HBVCXN1	HBVCXN1	正常		2019-08-09		

第 1 到 16 条, 共 16 条 每页 20 条

On the left is the organization, the address information is displayed, and the right side shows all the user information under the address, including serial number, account number, user name, status, contact information, creation time, skin style and default home page.

The button above is for editing user information.

① Keyword search function: Enter the keyword of the account and click Search to quickly find the required account information.

② Click the Add button and the following interface will appear.

添加

账号	最大长度 64 字符	用户名称*	administrator
密码*	*****	状态	正常
联系电话	请输入联系电话	账户类型	企业工程师
账户归属	T@Energy		
邮箱	最大长度 64 字符	默认主页	请输入默认主页
MAC	最大长度 128 字符	IP	最大长度 128 字符
备注	最大长度 4,000 字符		

保存 取消

You can create a new system account by editing the corresponding account information. After you have assigned the enterprise and device, you can use it to log in.

③ Modify: If you need to modify the existing account information, click this button to modify it. The steps are as follows:

- 1-Select the information you want to modify
- 2- Click Modify to bring up the following information interface that can be modified.

The '修改' (Modify) dialog box contains the following fields:

- 账号*** (Account): ceshi
- 用户名称*** (User Name): ceshi
- 状态** (Status): 正常 (Normal)
- 联系电话** (Contact Phone): 请输入联系电话 (Please enter contact phone)
- 账户类型** (Account Type): 企业工程师 (Enterprise Engineer)
- 邮箱** (Email): 最大长度 64 字符 (Maximum length 64 characters)
- 账户归属** (Account Belongs To): T@Energy
- 默认主页** (Default Home Page): 请输入默认主页 (Please enter default home page)
- MAC**: 最大长度 128 字符 (Maximum length 128 characters)
- IP**: 最大长度 128 字符 (Maximum length 128 characters)
- 备注** (Remarks): 最大长度 4,000 字符 (Maximum length 4,000 characters)

Buttons: 保存 (Save), 取消 (Cancel)

④Delete: First select the account you want to delete and click the delete button. PS: This operation will delete all the information of the account.

⑤Assigning Roles: The premise of this feature is that you have added roles to the role management (the role of the role will be discussed in the role management behind, do not explain too much here), click to select the account you want to assign the role Click on the assigned role, the following page will appear. At this time, select the role you have created and assign it to the account. The account can see the module under the role.

The '分配角色' (Assign Role) dialog box shows the process of assigning roles to the user 'ceshi'.

- 可用角色:** (Available Roles)
 - 超级管理员 (Super Administrator)
 - 管理员 (Administrator)
 - T@Energy演示 (T@Energy Demo)
 - T@Power演示 (T@Power Demo)
 - T@Data演示 (T@Data Demo)
 - TEST
 - 物业公司 (Property Company)
- 已赋角色:** (Assigned Roles)
 - ceshi
- Buttons: 添加 > (Add), < 删除 (Remove)

Buttons: 保存 (Save), 取消 (Cancel)

⑥Reset password: If you forget or need to change the login password of an account, you can use this function to reset the password. The steps are as follows:

- 1-Select the account you want to reset your password to.
- 2- Click Reset Password. If the following prompt appears, the password reset is successful.

提示

温馨提醒：重置成功，密码默认123456，请注意修改密码！

确定

⑦Assigning a business: Once you have assigned a role, you can assign it to your business. Select the account you want to assign, click on the distribution company, and the following page will pop up. If you want to specify this account to display one or some businesses, check the box in the back. (Open the enterprise, you can also assign the department under the enterprise)

分配企业

机构名称	机构代码	机构类型	选择企业
扬州天富龙科技纤维有限公司		企业	<input type="checkbox"/>
> 河南锦华物业有限公司		企业	<input type="checkbox"/>
> 许继信息智慧能源		企业	<input checked="" type="checkbox"/>
迎驾贡酒测试		企业	<input type="checkbox"/>
许继研发测试		企业	<input type="checkbox"/>
中原智能电气有限公司		企业	<input type="checkbox"/>
kassim	1	企业	<input type="checkbox"/>
Service Energia Ltda	55	企业	<input type="checkbox"/>
SCIZED	SCIZED	企业	<input type="checkbox"/>

保存 取消

⑧Assigning devices: Once the roles and enterprise assignments are complete, the next step is to assign the devices. Proceed as follows:

1- Select an account and click Assign Device. The following page will pop up, the top left corner shows the name of the company (you can only select the company you have already assigned, select the other company's meeting, nothing will be displayed below), the upper right corner shows the one you just assigned. Departments under the enterprise, (if you have no choice when assigning a company, all departments will be displayed by default)

2- After selecting a department, the unassigned device under the department will be displayed in the lower left corner. Click the device to assign it, and the device will be transferred from the unallocated column on the left to the allocated column on the right.



After all the above steps are completed, you can log in using the newly created account.

11.4 Role management

角色管理			
序号	角色名称	角色描述	
1	超级管理员		
2	管理员		
3	T@Energy演示		
4	T@Power演示		
5	T@Data演示		
6	TEST		
7	ceshi		
8	物业公司		
9	外贸演示1		
10	外贸演示2		

①Keyword Query: Enter the keyword you want to query in the search box, then click Search to quickly find the character information you need.

②Add a new role: After clicking the Add button, the following interface will pop up, fill in the corresponding information, click Save to add a new role.

新增角色

角色名称 最大长度 64 字符

角色编码 最大长度 50 字符

角色描述 最大长度 256 字符

是否启用 ☒

保存 取消

③Set permissions: Click on the rights assignment, the following interface will pop up, tick the required module.

设定权限

模块名称	可操作性	可授权
> 系统管理	<input type="checkbox"/>	<input type="checkbox"/>
> 运行监控	<input type="checkbox"/>	<input type="checkbox"/>
> 报表服务	<input type="checkbox"/>	<input type="checkbox"/>
> 能耗统计	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
> 通知公告	<input type="checkbox"/>	<input type="checkbox"/>
> 能耗分析	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
> 能源看板	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
> 配电监控	<input type="checkbox"/>	<input type="checkbox"/>
> 电能分析	<input type="checkbox"/>	<input type="checkbox"/>
> 设备管理	<input type="checkbox"/>	<input type="checkbox"/>

保存 取消

④Modify: First select the role to be modified, then click Modify to pop up the following interface. Finally edit the information you want to modify.

修改角色

角色名称 * ceshi

角色编码 最大长度 50 字符

角色描述 最大长度 256 字符

是否启用 ☒

保存 取消

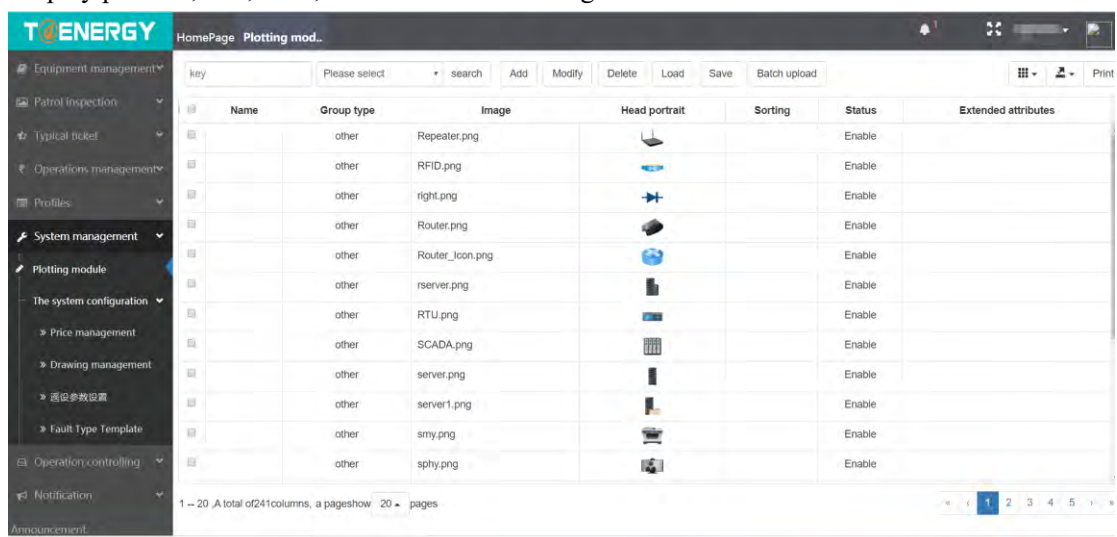
- ⑤Delete: Select the role you want to delete and click the delete button.

11.5 Dictionary management (need to be used with other modules)



11.6 Drawing component

Display pictures, text, lines, etc. used in the drawing.



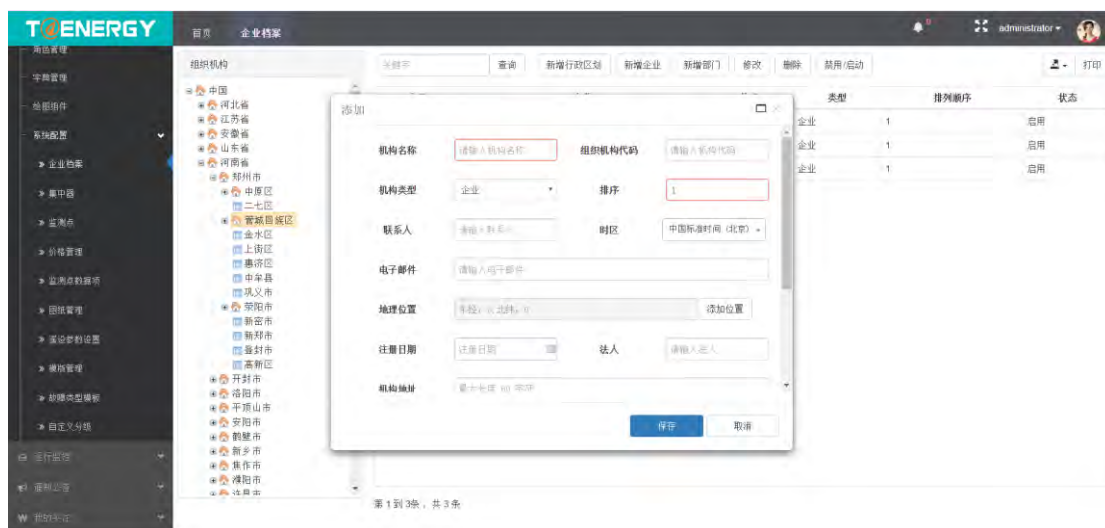
11.7 System Configuration

11.7.1 Enterprise Profile

Click on "Enterprise Profile" to display the following interface::



You can create a new administrative district, or you can click on an administrative district to establish a business under it. Click Add New Enterprise, the following interface appears.



Special attention: Establish regional and enterprise under the region, establish enterprises and departments under the enterprise, establish departments under the department, click button to build new enterprise or department, pay attention to the choice of organization type in the bullet box (the first one is selected by default, this requires careful attention)

11.7.2 Concentrator

Click on the "concentrator", the following interface appears::

The screenshot shows the TOENERGY Smart Energy Management System interface. On the left is a sidebar with navigation options like '系统管理', '用户管理', '设备管理', etc. The main area displays a table of concentrators with columns for '序号' (Serial Number), '组别名称' (Group Name), '群组' (Group), '集中器名称' (Concentrator Name), '集中器地址' (Concentrator Address), '数据频率(分钟)' (Data Frequency (minutes)), and '修改时间' (Modification Time).

序号	组别名称	群组	集中器名称	集中器地址	数据频率(分钟)	修改时间
1	许继集团智慧能源	A	智慧能源主站	250401201707018888	15	2017-10-28 10:30:03
2	航天主站	A	智慧能源主站	250402201706000002	15	2017-10-28 13:03:18
3	测试	A	国源电力-智慧能源	250402201805000020	1440	2018-05-23 15:27:43
4	测试	A	国源电力-智慧能源	250402201802000008	15	2018-03-16 16:16:48
5	测试	A	国源电力-智慧能源	250402201803000011	1440	2018-04-03 16:21:45
6	测试	A	国源电力-智慧能源	250402201803000015	1440	2018-04-20 15:21:49
7	测试	A	国源电力-智慧能源	250402201803000009	1440	2018-05-16 14:17:35
8	测试	A	国源电力-智慧能源	250402201803000014	1440	2018-05-09 14:03:42
9	测试	A	国源电力-智慧能源	250402201803000017	1440	2018-05-17 09:51:52
10	测试	A	国源电力-智慧能源	250402201803000012	1440	2018-05-17 12:56:52
11	测试	A	国源电力-智慧能源	250402201803000010	1440	2018-05-17 12:46:26
12	杭州三盛源	A	杭州三盛源	111111111111111111	1000	2018-06-06 18:02:49
13	安徽国电主站	A	安徽国电主站1	250401201806000024	15	2018-06-12 10:25:37
14	安徽国电主站	A	安徽国电主站2	250401201806000025	15	2018-06-12 10:26:12

Taking Xu Ji as an example, click “Xu Ji Information Smart Energy” in the organization, you can display all the concentrators of the enterprise and their number and modification time records on the right side, or click “Add” to add a new concentration. As shown below:

The screenshot shows the 'Add' form for adding a new concentrator. It includes four input fields: '集中器名称*' (Concentrator Name), '集中器地址*' (Concentrator Address), '数据频率*' (Data Frequency), and '群组*' (Group). The '数据频率*' field has a red label '分钟频率单位(分钟)' (Data Frequency Unit (minutes)). At the bottom, there are two buttons: '保存' (Save) and '取消' (Cancel).

The concentrator name (customizable) and the concentrator address (16-bit length), the frequency is generally filled in 15, the group selects a. Click Save when you are done. The upper button add/delete/modify is for the selected concentrator, delete and refresh the cache (modify the monitoring point information) will use these 2 buttons, select the concentrator to be operated to delete first, and refresh. Start the call button (not available), generally operate under the operation and maintenance of the operation and maintenance.



11.7.3 Monitoring positions

The monitoring point module is operated on the device, such as adding, modifying or deleting monitoring points under a certain concentrator.



Let's take a modification of a monitoring point as an example.

Monitoring Point Name: Name (required)

Affiliation: Company or department (required)

Whether to calculate: (the function is not developed for the time being), whether the device is added or subtracted in the area (required)

Monitoring point code, provincial platform data transmission will be used (not required).

Energy consumption classification You can set it yourself (it has a button next to it, click on the display below) to add, delete and change the operation, (required).

关键字	查询	添加	删除	修改	 打印
序号	类型名称	排序			
1	办公用电	1			
2	空调	2			
3	照明	3			
4	动力	4			

第 1 到 4 条，共 4 条

Installation location (not required)

Type of energy consumption: water, electricity, gas and warm. Can be set, in the dictionary management module, add (keyword DINYYLX), (required) screenshots are as follows

The screenshot shows the '字典管理' (Dictionary Management) page in the T@Energy system. The page has a sidebar on the left with various navigation options. The main content area displays a table of dictionary items. A red circle highlights the '字典名称' (Dictionary Name) column, and a red arrow points to the '名称' (Name) column. The table shows 5 items, all with status '启用' (Enabled).

序号	编码	名称	字典编码	字典名称	助记码	状态
1	DICNYLX	能源类型	1	水		启用
2			2	电		启用
3			3	气		启用
4			4	暖		启用
5			5	压缩空气		启用

Device type: Customizable, (required), dictionary management (keyword DICSBLX)



Device model, customizable, (required), dictionary management (keyword VERSION).



COM : No need to modify, default

Monitoring point address : No need to modify, defaultCT : (not required)

PT: (not required)

MK enterprise: (not required)

MK monitoring points: (not required)

K Station code: (not required)

K monitoring point: (not required)

Range: (not required)

Accumulated value of the meter: (not required), Feature not available

Meter code: (not required)

Whether virtual meter : (not required), Virtual computing

Calculation expression : (not required)

计算表达式

集中器

1#DPU

查询

序号	监测点名称	位置
1	车间空调1	
2	车间空调2	
3	销售部照明	
4	车间空调3	

1

2

3

4

AC

↩

/

*

7

8

9

-

4

5

6

+

1

2

3

(

)

0

.

确定

Baud rate: (not required)
Asset Number : (not required)

11.7.4 Price management

The price management module is used to calculate the price of all energy types of the system. After the price is set, it is mainly reflected in the cost proportion in the lower right corner of the energy board, the electricity cost analysis and power factor analysis of the energy analysis. When the page is opened, the following interface will appear. The action button is shown at the top and the cost information is displayed below.。

企业 许继信息智慧能源 查询 添加 修改 删除 打印

序号	电压等级 (KV)	日期类型	开始时间	结束时间	功率因数标准	用电容量 (KVA)	计费类型	基本电价 (元)	水价格 (元)	天然气价格 (元)	热力价格 (元)	操作
1	0.4	日	2019-01-01	2019-12-31	0.90	100	按容计费	20	4.3	2.25	2.4	详情 停用查询

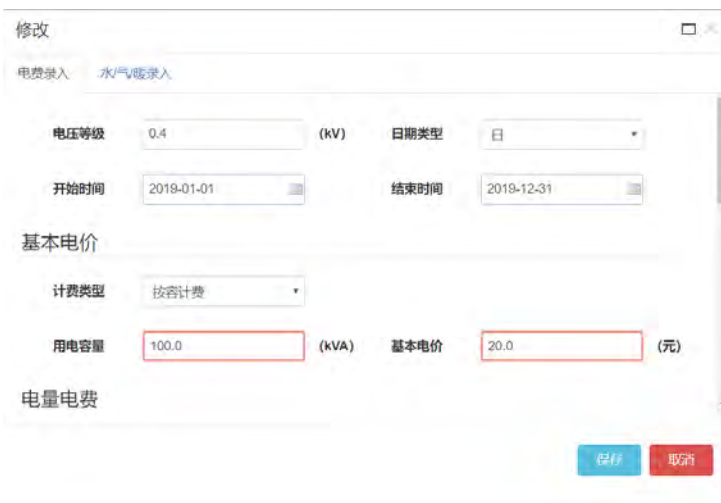
第 1 到 1 条, 共 1 条

①Enterprise query function: Select the enterprise you want to query, click on the query to display the basic situation of the fee setting under the enterprise.

②Add: Set a new cost calculation, open the interface as follows, on this page, you can fill in the corresponding energy type and price information according to your situation (Note: only when the water and electric heating is entered at the same time, can be saved)



③Modify: Use this feature to modify. Select the piece of information you want to modify, click the Modify button and the following interface will pop up, then modify the corresponding information and save it.



④Delete: Click the Delete button after selecting it.

⑤Details: Click on "Details" on the right side of the price information to display the price information that has been set, as shown below:

详情

电费录入

水/气/暖录入

电压等级

0.4

(kV)

日期类型

日

开始时间

2019-01-01

结束时间

2019-12-31

基本电价

计费类型

按容计费

用电容量

100.0

(kVA)

基本电价

20.0

(元)

电量电费

由量由价

1.0

(元)

取消

⑥Expense inquiry: After clicking this button, the usage of each day in the time period will be listed, as shown in the figure below.

费用查询

序号	日期	总用电量 (kWh)	总电费 (元)	总用水量 (t)	总用水费 (元)	总燃气量 (m³)	总燃气费 (元)	总供暖量 (m³)	总供暖费 (元)	查看详情
1	2019-06-01	256.92	2717.46	0	0	0	0	0	0	详情
2	2019-06-02	175.92	2618.38	10	43	0	0	0	0	详情
3	2019-06-03	302.54	2764.75	10	43	0	0	0	0	详情
4	2019-06-04	323.35	2790.53	10	43	0	0	0	0	详情
5	2019-06-05	0	26576.12	0	0	0	0	0	0	详情
6	2019-06-06	0	2656.19	0	0	0	0	0	0	详情
7	2019-06-07	16.23	2420.21	10	43	0	0	0	0	详情

第 1 到 20 条, 共 248 条

每页

20

条

1

2

3

4

5

...

取消

11.7.5 Monitoring point data item

Click “Monitor Point Data Item” to display the following interface:



序号	参数分类	系数	显示	类型	字段名	变量地址	注释	备注	排序	单位	趋势
1	遥测	1	是	秒	UA	16385	A相电压	C1-D1-ua	16385	V	
2	遥测	1	是	秒	UB	16386	B相电压	C1-D1-ub	16386	V	
3	遥测	1	是	秒	UC	16387	C相电压	C1-D1-uc	16387	V	
4	遥测	1	是	秒	IA	16388	A相电流	C1-D1-ia	16388	A	
5	遥测	1	是	秒	IB	16389	B相电流	C1-D1-ib	16389	A	
6	遥测	1	是	秒	IC	16390	C相电流	C1-D1-ic	16390	A	
7	遥测	1	是	秒	UAB	16391	Ab线电压	C1-D1-uab	16391	V	
8	遥测	1	是	秒	UBC	16392	Bc线电压	C1-D1-ubc	16392	V	
9	遥测	1	是	秒	UCA	16393	Ca线电压	C1-D1-uca	16393	V	
10	遥测	1	是	秒	FHA	16394	A相有功功率	C1-D1-fha	16394	kW	

Taking the demonstration enterprise as an example, if the concentrator "1#DPU" is clicked, the data item of all the monitoring points under the concentrator is displayed on the right side. If you click the monitoring point "Total Line Switch" in the organization, the data item information of the monitoring point is displayed on the right. The telemetry data item and the remote data item can be selected for query.

In addition, in the "coefficient" column, you can edit according to the actual situation of the meter, then click "save", and you need to refresh the concentrator cache to perform the modification at this time.

Remarks: Like the monitoring point, these data items are obtained by synchronizing the variables of the concentrator, and do not need to be added one by one.

Special attention here, the contents of the remote pop-up box are as follows

遥设设置

参数设置

对时

请输入对时

查询

下发

变送设置

请输入变送设置

查询

下发

需要在遥设参数设置

其他功能

自定义功能

请输入寄存器地址 (hex)

查询

下发

请输入功能设置值 (hex)

取消

11.7.6 Drawing management

The function of the drawing management module is mainly to manage various drawings of the equipment of the enterprise. The left side of the interface shows the organization, select the corresponding area, and can display the drawing information of the enterprise under the area. The details are as follows.

组织机构

关键字

查询

添加

修改

删除

绘图

看板

刷新

打印

基本信息					
序号	所属机构	名称	图纸类型	顺序	状态
1	许继信息智慧能源	智慧能源事业部配电系统图	配电网络图	1	禁用
2	许继信息智慧能源	新增测试系统图	配电网络图	2	禁用
3	许继信息智慧能源	重庆振兴材料	配电网络图	3	禁用
4	许继信息智慧能源	testtest	配电网络图	5	禁用
5	许继信息智慧能源	aaaaaaaaaaaaaaaa	配电网络图	6	禁用

第 1 到 20 条，共 65 条 每页 20 条

1 2 3 4 5 6

①Keyword query: After entering the keyword to be queried in the search box, click on the

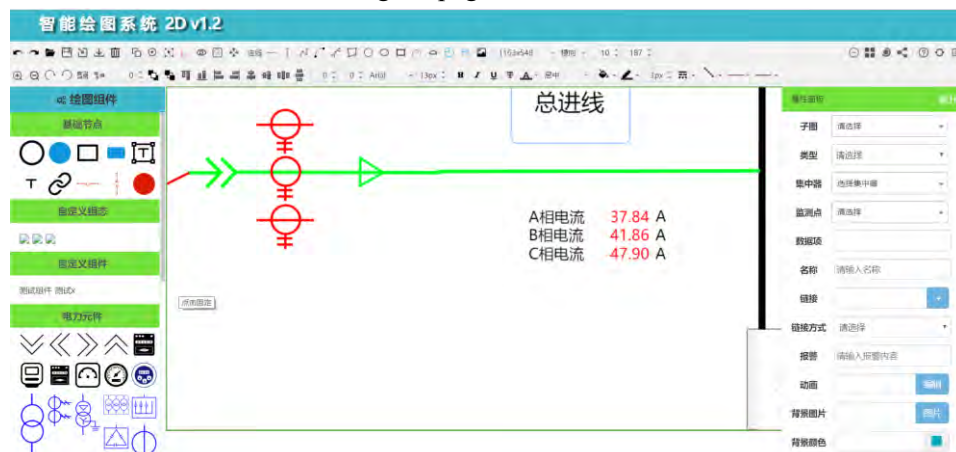
query to quickly search for the drawing information you want to view.

②Add: Add a new drawing. First fill in the name and order of the drawing, then select the drawing type, and finally click Save.

③Modify: Use the Modify button to modify some of the information related to the drawing. After clicking Modify, the following interface will appear, save the corresponding information and save it.

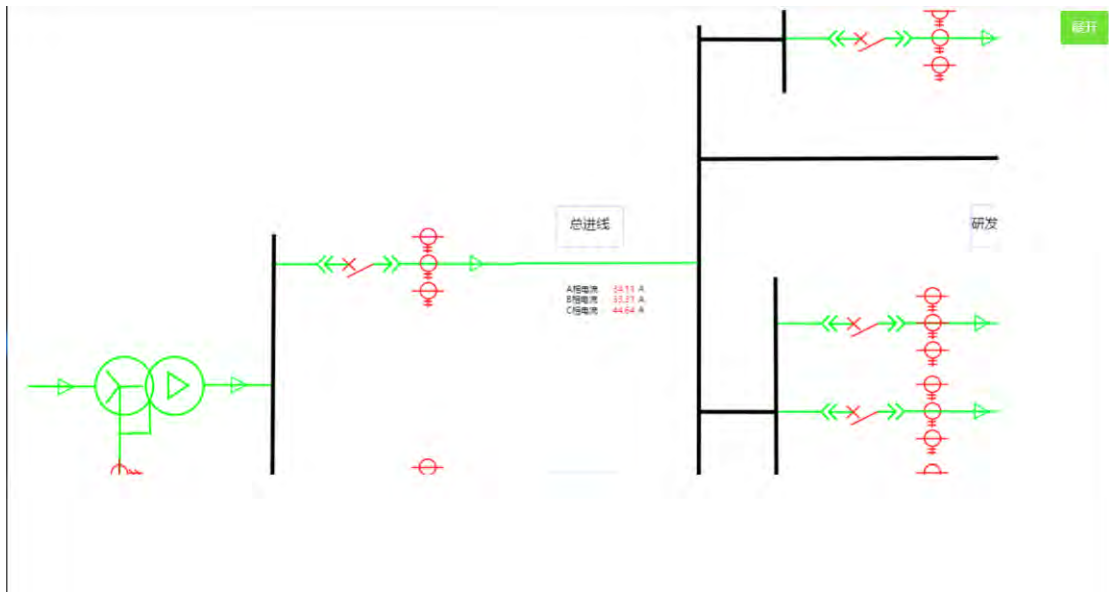
④Delete: Select the drawing you want to delete and click the delete button.

⑤Drawing: Adding a drawing, the next step is to draw a system diagram. Select the drawing you want to draw, click on the drawing, its page is as follows.



⑥View picture: This function is to view the system diagram that has been drawn, select the

drawing information, click this button to display the drawn system diagram information.



11.7.7 Product classification management

TOENERGY 智能能源管理系统

产品分类管理

新增 修改 删除 导入 保存

序号	生产类别代码	生产类别名称
1	01	本企业产品
2	02	非本企业产品
3	03	特殊动物饲料产品
4	04	渔业产品
5	05	农、林、牧、渔产品
6	06	煤炭产品
7	07	石油和天然气产品
8	08	有色金属
9	09	有色金属
10	10	有色金属
11	11	有色金属
12	12	有色金属
13	13	有色金属
14	14	有色金属
15	15	有色金属
16	16	有色金属

第 1 到 20 条，共 16 条数据 (20 / 页)

Support for import, add, delete and modify.

Pay attention to the number format when importing::

Excel 导入

上传文件

注意数字格式要正确

- 1、点击导出成功后,打开文件另保存为工作簿xls格式,修改后即可进行导入
- 2、点击下载模板进行下载,修改后即可进行导入

下载模板

保存 取消&

11.7.8 Remote parameter setting

Click the remote parameter setting, the interface is as follows:

Above is the function menu, support for adding, importing, modifying, saving and deleting, etc., the following data items are displayed in the form of a table.

T@ENERGY

系统管理

知识管理

用户管理

角色管理

数据组件

系统配置

企业档案

集中端

价格管理

监测点数据源

产品分类管理

图纸管理

遥测参数设置

故障类型模板

故障类型

故障设备

故障类型设置

运行监控

通知公告

首页 遥测参数设置

设备类型 请选择

关键字

查询

添加

导入

保存

修改

删除

打印

序号	遥测名称	遥测编码	寄存器地址	设备类型	备注
1	变送设置	20002	0006	1	

第 1 到 1 条, 共 1 条

11.7.9 Fault type template

Click "Fault Type Template", the display interface is as follows:



Support for adding, modifying, and deleting fault type templates.

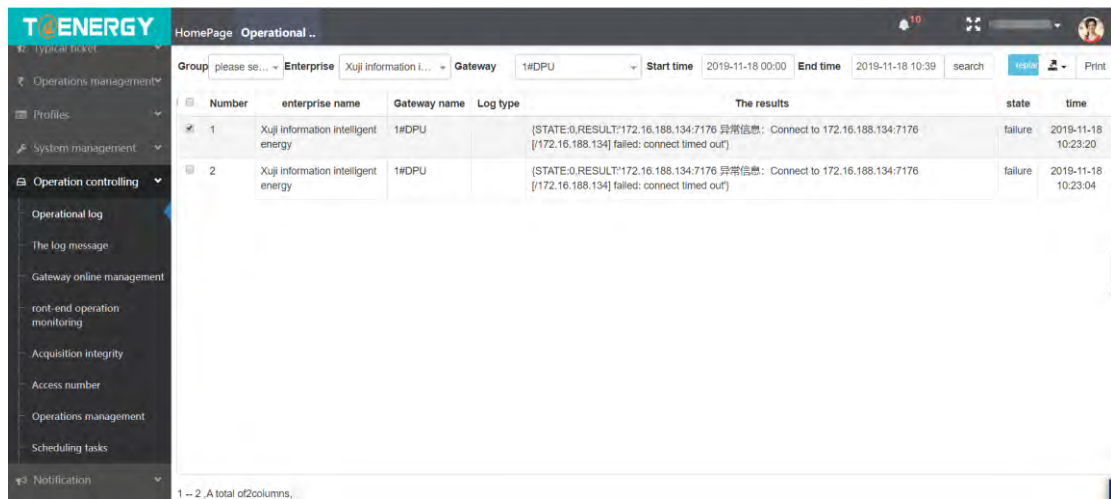
Set the fault type



12 Operation controlling

12.1 Operation log

After selecting the enterprise, time period, and gateway, all the interrogation records during this time period will be displayed on the page.

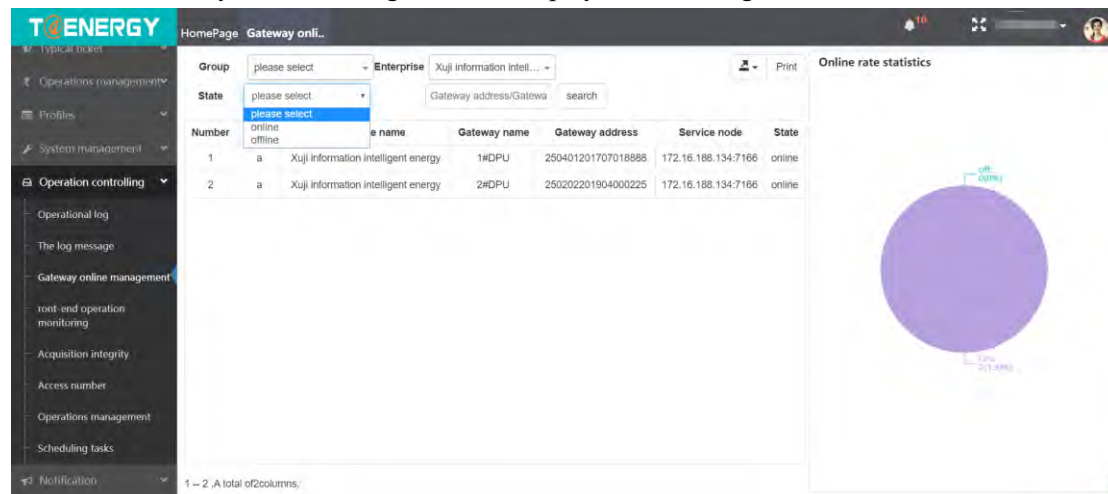


The screenshot shows the 'Operational log' section of the TOENERGY interface. It displays a table with columns: Number, enterprise name, Gateway name, Log type, The results, state, and time. Two entries are visible, both showing connection failures.

Number	enterprise name	Gateway name	Log type	The results	state	time
1	Xuji information intelligent energy	1#DPU		{STATE:0,RESULT:"172.16.188.134:7176 异常信息: Connect to 172.16.188.134:7176 [/172.16.188.134] failed: connect timed out"}	failure	2019-11-18 10:23:20
2	Xuji information intelligent energy	1#DPU		{STATE:0,RESULT:"172.16.188.134:7176 异常信息: Connect to 172.16.188.134:7176 [/172.16.188.134] failed: connect timed out"}	failure	2019-11-18 10:23:04

12.2 Gateway online management

Click On “Gateway Online Management” to display the following interface:



The screenshot shows the 'Gateway online management' section. It includes a table of gateway status and a pie chart for online rate statistics.

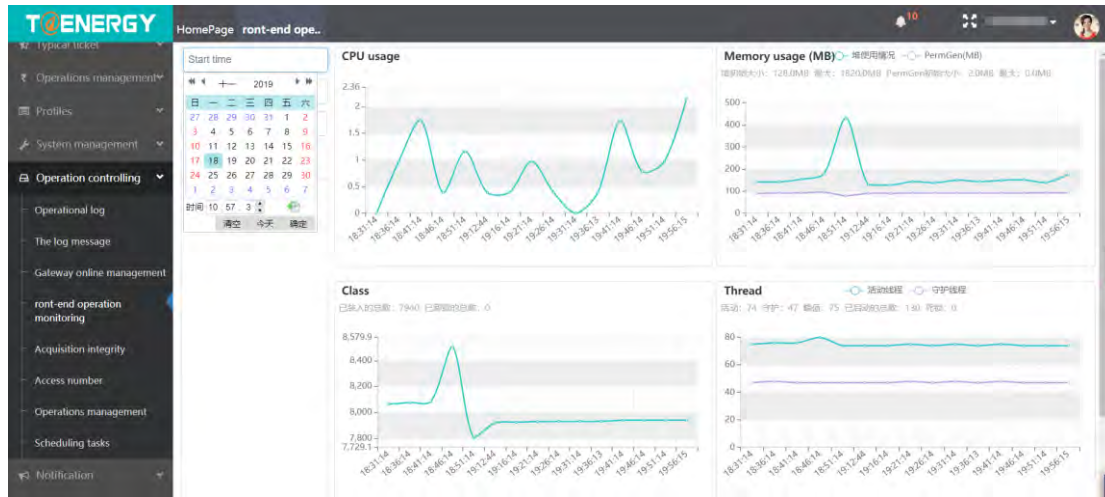
Number	a	enterprise name	Gateway name	Gateway address	Service node	State
1	a	Xuji information intelligent energy	1#DPU	250401201707018888	172.16.188.134:7166	online
2	a	Xuji information intelligent energy	2#DPU	250202201904000225	172.16.188.134:7166	online

The pie chart on the right, titled 'Online rate statistics', shows a large purple circle representing the 'online' state and a very small green slice representing the 'off' state.

The interface will display all the gateways under the account. It also can export the log to the excel table. On the right is the online rate statistics for the gateway. You can select the enterprise, click "Search" to display the gateway under the enterprise, and the online rate will be displayed on the right.

12.3 Front-end machine operation monitoring

On the left you can choose the start time and end time and the server list:



12.4 Acquisition integrity

Statistics on the gateway data collection of an enterprise, the corresponding number of acquisitions and the actual collection number are compared. If there is any missing mining, click “complement mining” to supplement the data.

T3ENERGY HomePage Acquisition ..

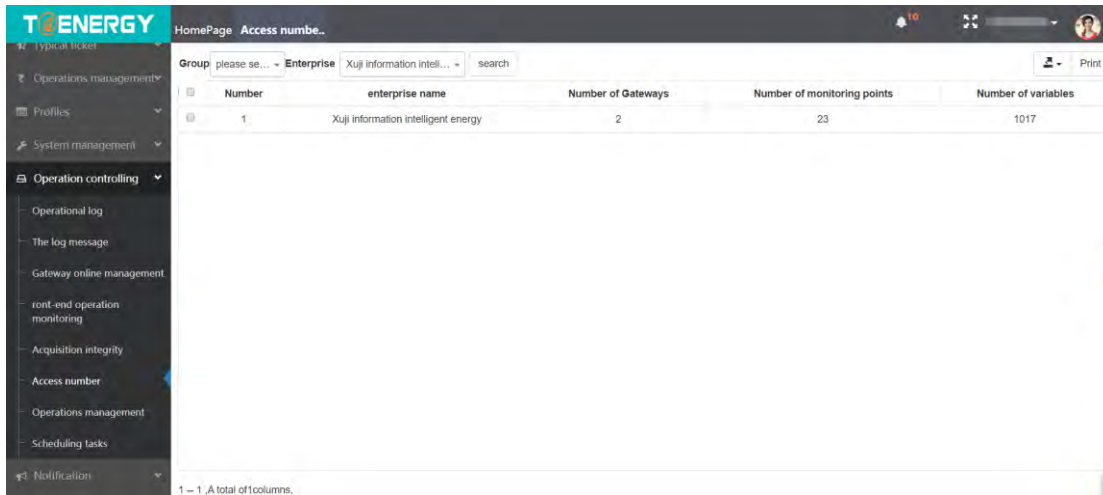
Group please se... Enterprise Xuji information L... Start time 2019-11-18 00:00 End time 2019-11-18 10:58 search Complete rate

Number	Group	enterprise name	Gateway name	Acquisition number	Collection number	Complete rate	Operation
1	A	Xuji information intelligent energy	2#DPU	659	44	1497.73%	detailed
2	A	Xuji information intelligent energy	1#DPU	659	44	1497.73%	detailed

1 ~ 2 A total of 2 columns.

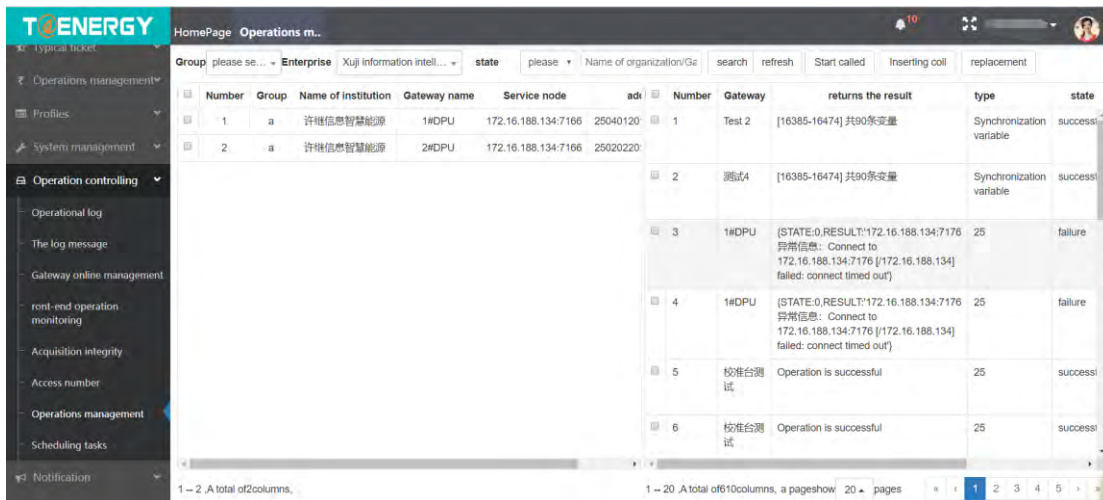
12.5 Access number

Display the gateway numbers, monitoring points numbers, and variables numbers under the account.



Number	enterprise name	Number of Gateways	Number of monitoring points	Number of variables
1	Xuji information intelligent energy	2	23	1017

12.6 Operation management



Number	Group	Name of Institution	Gateway name	Service node	state
2	a	许继信息智慧能源	2#DPU	172.16.188.134:7166	25020220

The right side shows the online gateways after choosing the enterprise. Select the online concentrator and click “Start Called”, the following interface appears:

Called measurement																													
<div>配置下发</div> <ul style="list-style-type: none"> 主站IP设置 手动对时 频率设置 上下限下发 自动升级 集中器命令 日月冻结时间 下发模版 清空模版 <div>配置查询</div> <ul style="list-style-type: none"> 主站IP查询 召唤时钟 同步变量 频率查询 	<table> <tr> <th>Number</th><th>Project classification</th><th>The project name</th></tr> <tr> <td>1</td><td>Configuration is issued</td><td>Master IP Settings</td></tr> <tr> <td>2</td><td>376协议</td><td>任务下发</td></tr> <tr> <td>3</td><td>Configure the query</td><td>Master IP query</td></tr> <tr> <td>4</td><td>376协议</td><td>即插即采</td></tr> <tr> <td>5</td><td>Configuration is issued</td><td>手动对时</td></tr> <tr> <td>6</td><td>376协议</td><td>相位识别</td></tr> <tr> <td>7</td><td>Configure the query</td><td>Call the clock</td></tr> <tr> <td>8</td><td>Configuration is issued</td><td>下发模版</td></tr> </table>	Number	Project classification	The project name	1	Configuration is issued	Master IP Settings	2	376协议	任务下发	3	Configure the query	Master IP query	4	376协议	即插即采	5	Configuration is issued	手动对时	6	376协议	相位识别	7	Configure the query	Call the clock	8	Configuration is issued	下发模版	
Number	Project classification	The project name																											
1	Configuration is issued	Master IP Settings																											
2	376协议	任务下发																											
3	Configure the query	Master IP query																											
4	376协议	即插即采																											
5	Configuration is issued	手动对时																											
6	376协议	相位识别																											
7	Configure the query	Call the clock																											
8	Configuration is issued	下发模版																											

1. "Configuration Query" includes: main station IP query, summoning clock (gateway), synchronization variable, frequency query, gateway version.
2. "Historical record" includes: event record, minute record, daily frozen history data, and monthly frozen history data.
3. "issued Configuration": master IP settings, manual time setting, frequency setting, delivery template, empty template, upper and lower limit delivery, automatic upgrade, concentrator command, daily and monthly freezing time.

The gateway can be operated as above according to the requirements.。

The right side is the Operation log. It can clearly display the various operations and operation results of the selected gateway. For a single log record, you can also click "Reissue" to reissue the interrogation command. And the "downline" function can make the online gateway offline.

12.7 Scheduling Tasks

T-ENERGY										
HomePage Scheduling t..										
<div>Default gro all search Add Modify Delete Start Pause Stop Execute now View log</div>										
Number	Name of scheduling	state	describe	The thread of execution	The ownership classification	Scheduling rules	Task start time	Next run time	Last run time	
1	Analysis and statistics of load characteristics (day)	NORMAL			defaultGroup	0 0 1 * * ?	2019-09-05 10:08	2019-11-19 01:00	2019-11-18 01:00	
2	Analysis and statistics of load characteristics (monthly)	NORMAL			defaultGroup	0 0 2 1 1/1 ? *	2019-06-17 15:49	2019-12-01 02:00	2019-11-01 02:00	
3	Average calculation of voltage and current (daily)	NORMAL			defaultGroup	0 0 1 * * ?	2019-09-05 10:12	2019-11-19 01:00	2019-11-18 01:00	
4	Concentrator timing	ERROR			defaultGroup	* / 10 * * * * ?	2019-09-04 20:04	2019-09-10 15:27	2019-09-10 15:27	com
5	Enterprise expense calculation (day)	NORMAL			defaultGroup	0 0 1 * * ?	2019-11-12 17:32	2019-11-19 01:00	2019-11-18 01:00	
6	Enterprise expense calculation (monthly)	NORMAL			defaultGroup	0 0 2 1 1/1 ? *	2019-11-12 17:33	2019-12-01 02:00		
7	Frozen data (day)	NORMAL			defaultGroup	0 0 1 * * ?	2019-11-18 09:07	2019-11-19 01:00		

The current task is the monitoring task of the data acquisition subsystem, and can also add, modify, delete, start, pause, suspend the task, and view the log for a certain task.

13 My concerning

This module is mainly for the device assigned to the specified user in the user management. The super management login will display all the devices under the enterprise, and the ordinary users will display the assigned devices.