

1. Scenario Preset

- (1) There are 10 Areas with 3-phase Power System needed to be monitored
- (2) Each area has 20 circuits 3-phase needed to be monitored, circuits' rated voltage is 3x400Vac L-L and 3x230Vac L-N, circuit's rated current is 100A AC.
- (3) For the place that we gonna install energy meter and WiFi gateway, it was covered by stable WiFi signal.
- (4) All 3-phase energy meter will be of partial centralized installation in each MDB, which make it possible for 1 AWT100-WiFiHW WiFi IoT gateway to support 20 (max 25, recommend 20) ADL400/C 3-phase Energy Meters using RS485 wired communication in a close range within 300m.

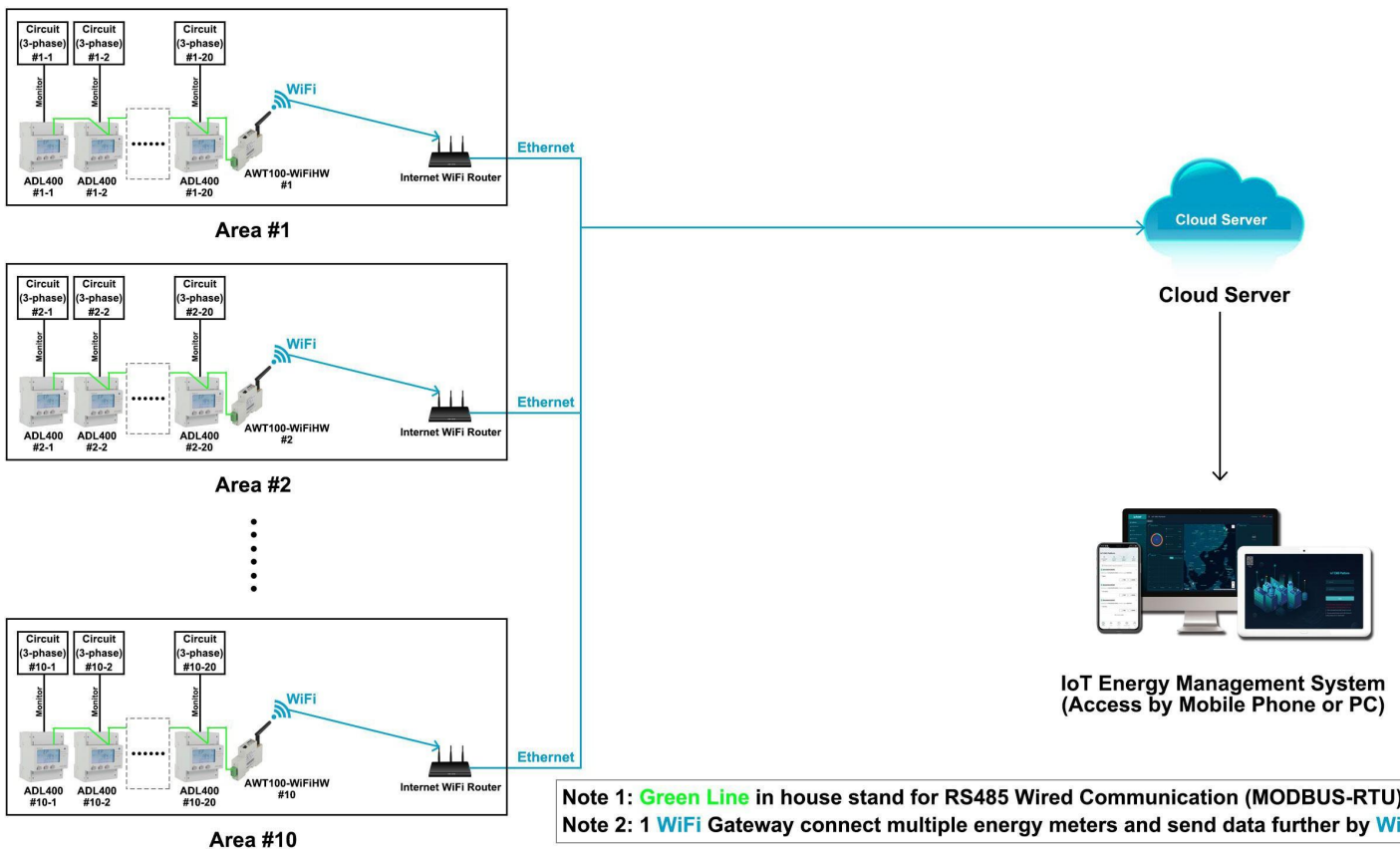
2. Devices Deployment Plan

Area #1 - Power Circuit [3-phase] #1-1 ~ #1-20:

- 1* AWT100-WiFiHW IoT WiFi Gateway [Support energy meter in Area #1 for WiFi Data Upstream]
- 1* AWT100-POW Power Supply Module [For 85~265Vac/Vdc power supply of AWT100-WiFiHW]
- 20* ADL400/C 3-phase DIN-rail Energy Meter [For monitoring Power Circuit #1-1 ~ #1-20]
- 60* AKH-0.66/K K-φ24 150/5 Split-core Current Transformer [Paired with ADL400/C for current input]
- .
- .

Area #10 - Power Circuit [3-phase] #10-1 ~ #10-20:

- 1* AWT100-WiFiHW IoT WiFi Gateway [Support energy meter in Area #10 for WiFi Data Upstream]
- 1* AWT100-POW Power Supply Module [For 85~265Vac/Vdc power supply of AWT100-WiFiHW]
- 20* ADL400/C 3-phase DIN-rail Energy Meter [For monitoring Power Circuit #10-1 ~ #10-20]
- 60* AKH-0.66/K K-φ24 150/5 Split-core Current Transformer [Paired with ADL400/C for current input]

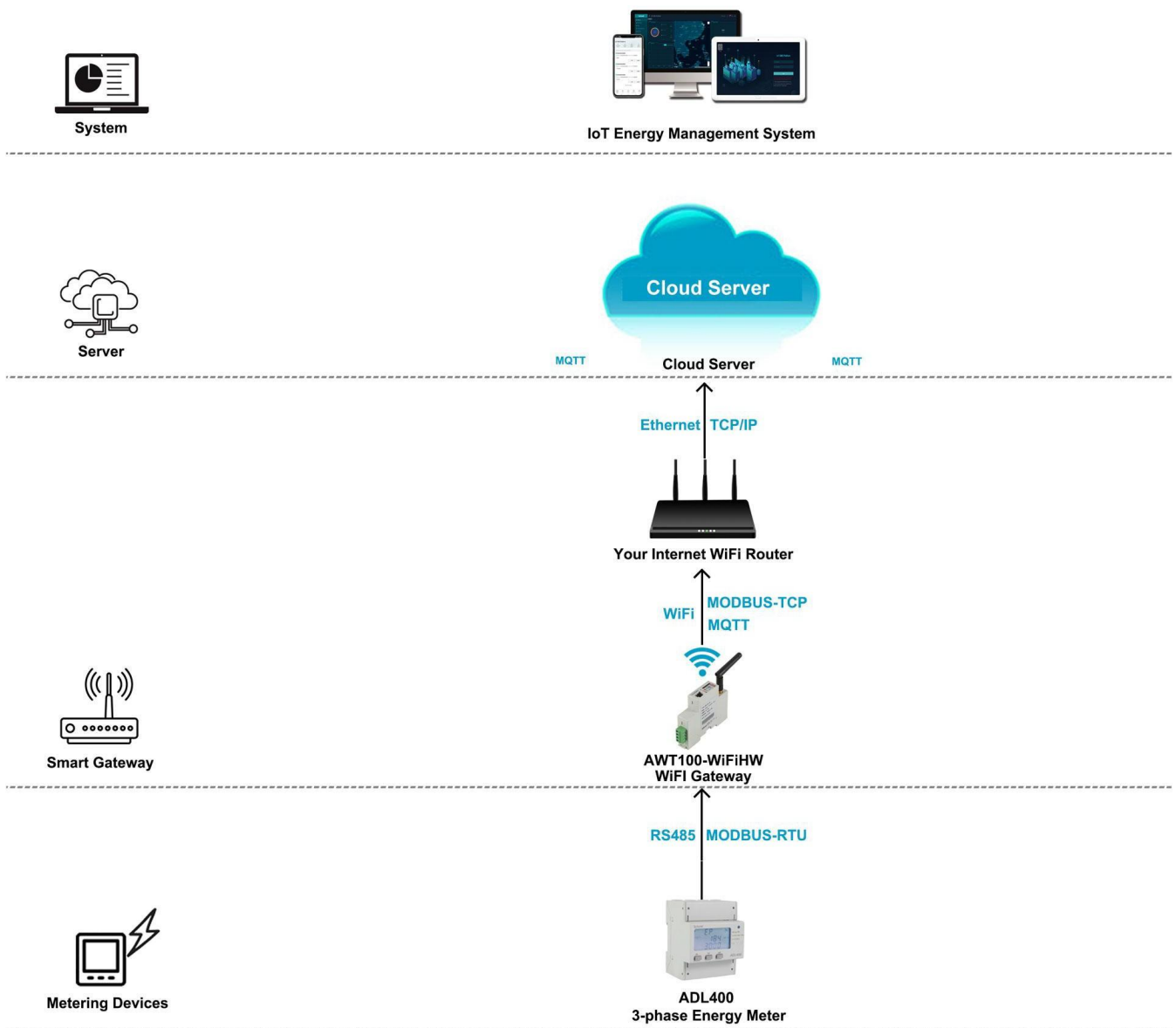


3. Communication Structure&Logic

(1) WiFi Communication could be served as one of the final data upstream methods by sending the data to cloud server deployed in Internet so that Acrel IoT System could be interact with these data collected by bottom metering devices like Energy Meter

(2) AWT100-WiFiHW gateway support upstream of WiFi communication with MQTT and MODBUS-TCP protocol and downstream of RS485 communication based on MODBUS-RTU protocol. ADL400/C support upstream communication of RS485 communication based on MODBUS-RTU protocol.

(3) Based on the communication described in item (2), Acrel AWT100-WiFiHW gateway could receive the data from ADL400/C energy meter using RS485 communication while sending the data further to cloud server using WiFi upstream communication. Thus accomplish a complete communication from bottom metering devices to top system software.



4. Hardware Devices Overview [Energy Meter & Paired IoT Gateway]

Model 1: AWT100-WiFiHW IoT WiFi Smart Gateway

- Upstream Comms.: WiFi [MQTT, MODBUS Protocol]-
- Downstream Comms.: RS485 [MODBUS-RTU Protocol]-
- Support: Up to 25 Downstream Devices via RS485.
- Auxiliary Power Supply: 85~265Vac [via AWT100-POW]
- Certificate&Standard: CE; CE-RED; IEC

IoT Gateway
WiFi Upstream
MQTT&MODBUS
RS485 Downstream



Model 2: AWT100-POW Power Supply Module

- Input: 85~265Vac
- Output: 12Vdc
- Application: Paired with AWT100-4GHW for 85~265Vac Power Supply Input [via PIN L & PIN N]
- Certificate&Standard: CE

Rated Input
Rated Output
85~265Vac
12Vdc



Model 2: ADL400 3-phase AC DIN-rail Energy Meter

- Monitoring: Up 1 circuits 3-phase [AC Metering]
- Rated Voltage: 3x380~456Vac L-L & 3x220~264Vac L-N
- Rated Current: 3x1(6)A AC (via paired CT)
- Wired Comms: RS485 Interface, MODBUS-RTU Protocol
- Certificate&Standard: CE; CE-MID; EAC

3-phase
35mm DIN Rail
Direct or via CTs
MODBUS-RTU



3. Hardware Devices Overview [Energy Meter & Paired CTs]


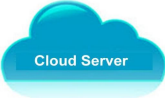




Model 2: AKH-0.66/K K- Φ 24 150/5 Split-core Current Transformer

- Current Ratio: 150A/5A
- Primary Current: 150A
- Secondary Current: 5A
- Accuracy: Class 0.5 or 1.0
- Certificate&Standard: CE



4. Overall Model Selection&Quotation

(1) This Quotation doesn't include freight charge. To gain a complete quotation, please refer the actual quantity that you want to request for the actual order, once we receiving it. We will issue a Official Proforma Invoice with Acrel Stamps on it for later procedure.

System Software					
Name	Description	System Price	Remark (Choose Host Service or Buy-out Service after 3-month Free Trial of Cloud IoT System)		
 Acrel Cloud IoT Energy Management System	1.System support all the meters across the country whose data has been sent to cloud server through 4G,WiFi or Ethernet . 2.Remote meter reading and data collection. 3.Provide IoT APP for mobile phone side and IoT WEB for PC side. 4.Generate energy data report of daily, monthly and annually period with year-on-yeay and period-on-period energy analysis. 5.Provide various alarm function to ensure a stable operation of the system and protect your property. 6.Offer 3-month free trial of system with full technical support as for a test phase or pilot project.	\$0 (recommended in pilot project)	3-month Free Trail (Users don't need to rent a cloud server)		
		\$xxx/Year (For 200 Points) (Price for Host Service Only, recommended in pilot project)	\$xx to buy Hosting Service for 1 monitoring points connected to the system 1 year (Users don't need to rent a cloud server)		
		\$xxxxPermanent (Limitless Points) (Price for Buy-out Service Only,recommended in late project)	1-time charging of \$xxxx for Buy-out Service of permanent use (Limitless monitoring points and a cloud server need to be rent by users)		
Cloud Server					
Name	Description	Server Renting Price (For Reference Only)	Remark		
 Cloud Server	1.Cloud Server could be rent on the cloud server provider like Amazon Cloud. 2.Users of Cloud IoT Energy Management System only need to rent cloud server when they choose buy-out service of our Cloud IoT System . And if they are using hosting service or 3-month free trial of our Cloud IoT System, we will use our own cloud server which has been rent on Amazon so that users don't need to rent a cloud server. 3.The quotation of Cloud Server is only a reference price that we have rent on Amazon Cloud.	According to Specs of Rented Cloud Server	Below cloud server specs could support 1000~2000 monitoings points connected to the system (Server: 8 core 16G Operation System: windows server 2016)		
WiFi Smart Gateway					
Overview Picture	USAGE&MODULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB UNIT PRICE (USD)	AMOUNT (USD)
	WiFi Smart Gateway AWT100-WiFiHW	Upstream: WiFi (2.4&5GHz, support MQTT&MODBUS-TCP Protocol) Downstream: RS485 (MODBUS-RTU) Support: up to 20~25 Energy Meters within 400m using RS485 Wired Communication Power Supply: 85~265Vac/Vdc	10 pcs	/	/
	Power Supply Module AWT100-POW	Input: 85~265Vac/Vdc Output: 24Vdc Application: paired with AWT100 Series gateway for 85~265Vac/Vdc power supply input	10 pcs	/	/
3-phase Energy Meter					
Overview Picture	USAGE&MODULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB UNIT PRICE (USD)	AMOUNT (USD)
	3-phase DIN-rail Energy Meter ADL400	Communication: RS485 (MODBUS-RTU) Harmonic: Total and 2nd-31st harmonic Multi-rates(Optional): 4 Tariff Rates and etc. Rated Voltage: 3x380~456Vac L-L & 3x220~264Vac L-N (45~65Hz) Rated Current: or 3x1(6)A AC (via CTs)	200 pcs	/	/
Paired CTs					
	Split-core Current Trasnformer AKH-0.66/K K-φ24	Current Ratio: 150/5A AC Aperture: φ24mm (diameter) Accuracy: Class 1.0 Application: Paired with ADL400/C for current input, suitable for primary current below 150A AC.	600 pcs	/	/

6. Acrel IoT Energy Monitoring System (Partail Introduction)

Acrel IoT Energy Monitoring System could be access in 2 different ways:

(1) Access through WEB on your computer.

Access port: <https://iot.acrel-eem.com/>

(2) Access through APP on your mobile phone

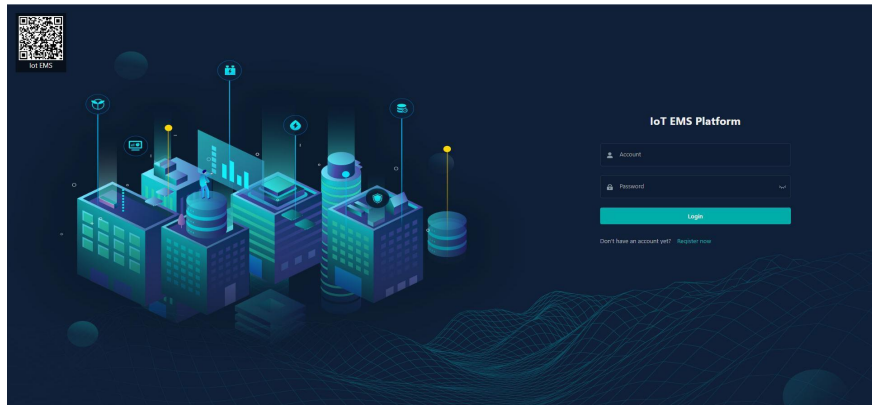
Download Link: <https://play.google.com/store/apps/details?id=com.acrel.iotems>

(1) WEB Accesss (Computer):

Access Port: <https://iot.acrel-eem.com/>

Test Account Name: acrel

Test Account Password: 123456

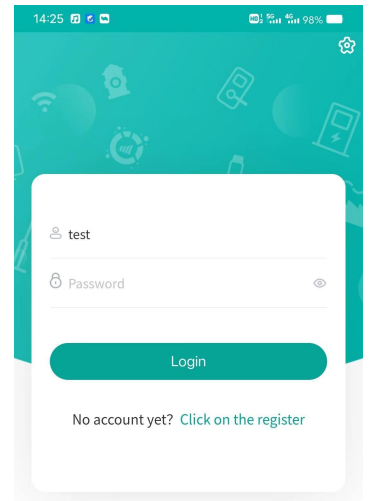
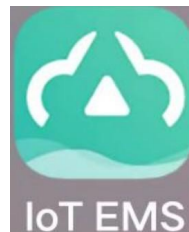


(2) APP Accesss (Mobile):

Download Link: <https://play.google.com/store/apps/details?id=com.acrel.iotems>

Test Account Name: acrel

Test Account Password: 123456

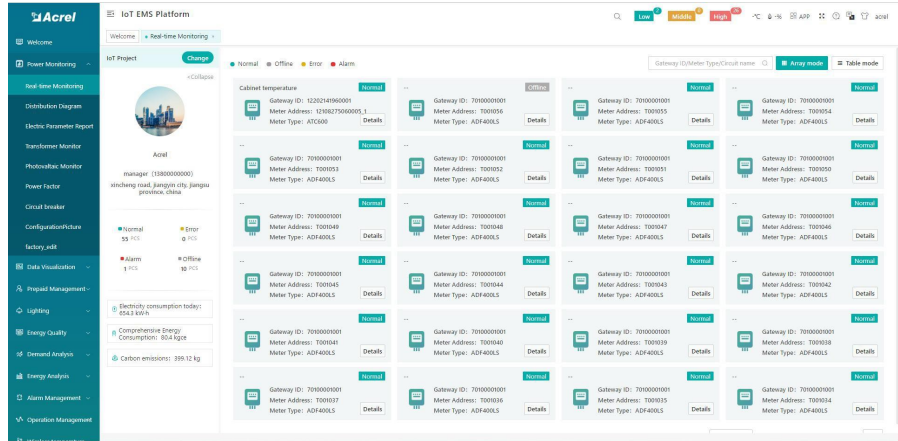


6. Acrel IoT Energy Monitoring System (Partail Introduction)

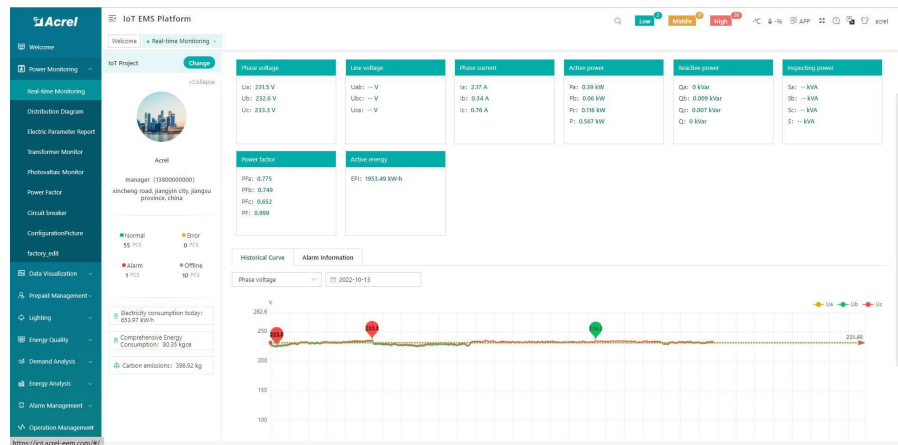
Main Function of WEB side System:

- (1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

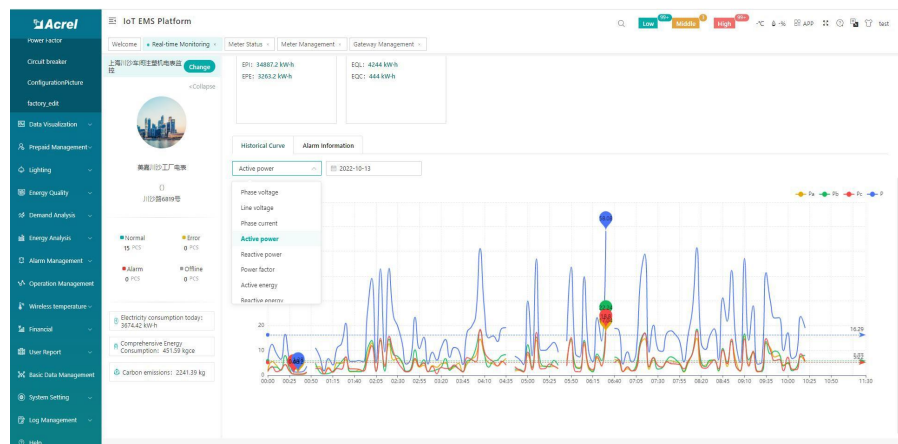
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(2) History Curve: Showing the daily history data curve of all the data that could be collected and upload by energy meter or other basic metering devices.



(2) History Curve: By selecting the items of "data" and "electricity parameter", platform can show the history curve of different data and date.

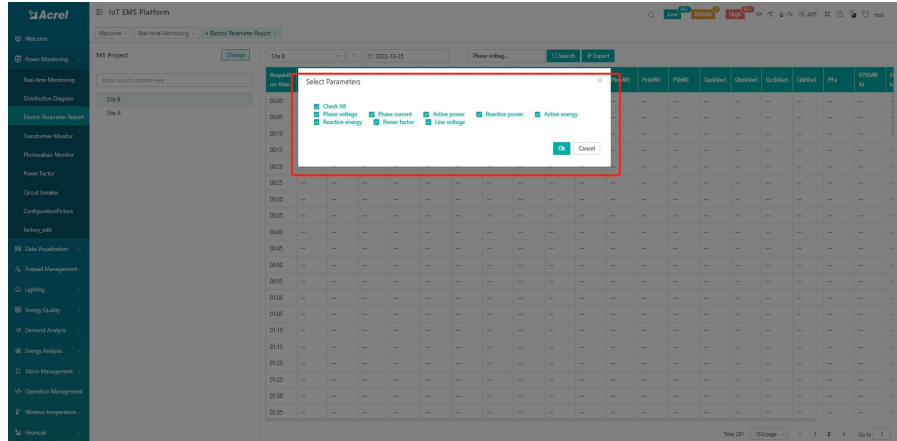


6. Acrel IoT Energy Monitoring System (Partail Introduction)

Main Function of WEB side System:

- (1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

(3) Electricity Parameters Report: Select the "electricity parameters" that you want to show in this report



(3) Electricity Parameters Report: All the electricity parameters that could be collected by certain energy meter will showed as a report here.

ID	PkV1	PkV2	PkV3	PkVA	PkW	QkVAr	QkVAr2	QkVAr3	QkVAr4	ScVA1	ScVA2	ScVA3	ScVA4	PFa	PFb	PFc	PF	EPkWh
8	11.04	9	8.82	28.86	-9.54	-5.12	-7.02	22.86	14.58	10.92	11.46	36.96	--	--	--	--	--	139425
10	10.02	8.82	8.64	27.48	-7.6	-6.18	-7.02	21	13.26	10.8	11.16	33.22	--	--	--	--	--	139427
24	9.84	8.46	8.46	26.76	-8.34	-5.82	-6.84	21	12.9	10.26	10.86	34.02	--	--	--	--	--	139428
98	10.14	8.76	8.76	27.66	-7.74	-6.06	-7.02	20.82	13.2	10.68	11.28	35.16	--	--	--	--	--	139432
76	8.54	8.64	8.34	26.52	-8.28	-6.06	-6.6	20.84	12.6	10.56	10.86	34.02	--	--	--	--	--	139434
14	10.38	9.18	8.64	28.2	-7.44	-6.42	-6.6	20.76	13.5	11.22	11.1	35.82	--	--	--	--	--	139450
38	9.9	8.82	8.34	27.06	-8.46	-6.12	-6.84	21.42	13.08	10.74	10.8	34.62	--	--	--	--	--	139451
56	10.38	8.76	8.58	27.72	-8.04	-6.12	-6.6	21.06	13.32	10.68	11.04	35.04	--	--	--	--	--	139451
48	8.78	8.94	8.52	27.24	-7.5	-6.18	-6.6	20.58	12.9	10.32	10.96	34.8	--	--	--	--	--	139451
24	9.6	9.54	9.3	28.44	-8.34	-6.12	-6.12	20.58	12.72	11.4	11.64	35.76	--	--	--	--	--	139451
46	9.78	8.58	8.4	26.76	-8.6	-6.06	-6.6	21.42	12.96	10.5	10.92	34.38	--	--	--	--	--	139451
56	13.56	11.4	11.82	36.78	-9.36	-8.8	-8.36	14.52	15.48	12.36	13.44	41.28	--	--	--	--	--	139451
24	9.66	8.4	8.52	26.58	-8.52	-5.94	-7.02	21.48	12.9	11.04	11.4	34.26	--	--	--	--	--	139451
64	9.42	8.28	8.34	25.04	-8.28	-5.88	-6.66	21.12	12.54	10.14	10.86	33.54	--	--	--	--	--	139451
98	9.36	8.16	8.28	25.8	-8.28	-5.82	-6.66	21.06	12.48	10.8	10.8	33.3	--	--	--	--	--	139451
14	10.02	8.22	8.22	26.46	-8.28	-5.88	-6.84	21	12.66	10.68	10.68	33.72	--	--	--	--	--	139460
98	9.66	8.28	8.16	26.1	-8.34	-5.94	-6.66	21.24	12.78	10.2	10.68	33.66	--	--	--	--	--	139462
32	10.92	8.28	8.34	27.54	-8.44	-5.94	-7.08	17.86	13.8	10.26	10.96	35.04	--	--	--	--	--	139464

(3) Electricity Parameters Report: Report on platform could be exported in "Excel" format to your computer for a brief storage when accessing the IoT EMS WEB platform.

Acquisition Time	Ua(V)	Ub(V)	Uc(V)	Uab(V)	Ubc(V)	Uca(V)	Pa(W)	Pb(W)	Pc(W)	PkVA	QkVAr	QkVAr2	QkVAr3	QkVAr4	ScVA1	ScVA2	ScVA3	ScVA4	PFa	PFb	PFc	PF	EPkWh
2 00:00	235.6	225.9	227.4	--	--	--	64.86	48.42	50.4	11.04	9	8.82	28.86	-9.54	-6.12	-7.2	22.86	14.58	10.92	11.46	36.96	--	--
3 00:05	235.6	225.4	227.4	--	--	--	58.92	47.94	49.08	10.02	8.82	8.64	27.48	-7.8	-6.18	-7.02	21	13.26	10.8	11.16	33.22	--	--
4 00:10	234.2	224.2	225.8	--	--	--	57.72	45.96	48.24	9.84	8.46	8.46	26.76	-8.34	-5.82	-6.84	21	12.9	10.26	10.86	34.02	--	--
5 00:15	233.9	224.2	225.9	--	--	--	59.16	47.82	49.80	10.14	8.76	8.76	27.66	-7.74	-6.06	-7.02	20.82	13.2	10.68	11.28	35.16	--	--
6 00:20	235.4	225.6	227.1	--	--	--	56.1	47.04	47.76	9.54	8.64	8.34	26.52	-8.28	-6.06	-6.6	20.84	12.6	10.56	10.86	34.02	--	--
7 00:25	234.6	224.7	226.3	--	--	--	60.12	50.1	49.14	10.38	9.18	8.64	28.2	-7.44	-6.42	-6.9	20.76	13.5	11.22	11.1	35.82	--	--
8 00:30	235.3	225.7	227.5	--	--	--	55.09	47.7	47.58	9.9	8.82	8.34	27.06	-8.46	-6.12	-6.84	21.42	13.08	10.74	10.8	34.62	--	--
9 00:35	236.2	227	228.6	--	--	--	59.04	47.16	48.36	10.38	8.76	8.58	27.72	-8.04	-6.12	-6.9	21.06	13.32	10.68	11.04	35.04	--	--
10 00:40	235.3	226.2	227.7	--	--	--	57.18	48.3	48.48	9.78	8.94	8.52	27.24	-7.5	-6.18	-6.9	20.58	12.9	10.92	10.96	34.8	--	--
11 00:45	236.7	226.9	228.6	--	--	--	56.52	50.28	51.24	9.6	9.54	9.3	28.44	-8.34	-6.12	-6.12	20.58	12.72	11.4	11.64	35.76	--	--
12 00:50	238.1	228.8	229.9	--	--	--	57	46.2	47.46	9.78	8.58	8.4	26.76	-8.46	-6.06	-6.9	21.42	12.96	10.5	10.92	34.38	--	--
13 00:55	238	228.8	230.4	--	--	--	67.98	54.24	58.56	13.56	11.4	11.82	36.78	-9.36	-8.8	-8.36	14.52	15.48	12.36	13.44	41.28	--	--
14 01:00	238.5	228.8	230	--	--	--	56.52	45.12	48.24	9.66	8.4	8.52	26.58	-8.52	-5.94	-7.02	21.48	12.9	10.32	11.04	34.26	--	--
15 01:05	227.7	228	229.2	--	--	--	55.32	44.7	47.64	9.42	8.28	8.34	26.04	-8.28	-5.88	-6.66	21.12	12.54	10.14	10.86	33.54	--	--
16 01:10	230	230.2	231.8	--	--	--	64.54	43.68	46.86	9.36	8.16	8.28	25.8	-8.28	-5.82	-6.66	21.06	12.48	10.48	10.92	34.44	41.28	--
17 01:15	230.3	231.1	232.5	--	--	--	56.52	43.96	46.14	10.02	8.22	8.22	26.46	-8.28	-5.88	-6.84	21	12.96	10.08	10.68	33.72	--	--
18 01:20	230.5	231.2	232.8	--	--	--	55.56	44.28	46.08	9.66	8.28	8.16	26.1	-8.34	-5.94	-6.96	21.24	12.78	10.2	10.68	33.66	--	--
19 01:25	230.8	231.2	232.7	--	--	--	60	44.4	47.22	10.92	8.28	8.34	27.54	-8.44	-5.94	-7.08	17.46	13.8	10.26	10.98	35.04	--	--
20 01:30	231.1	231.2	233.1	--	--	--	53.28	43.14	46.32	9.24	8.16	8.34	25.74	-8.1	-5.84	-6.78	20.52	12.3	9.96	10.74	33	--	--
21 01:35	230.9	229.8	231.3	--	--	--	53.16	43.5	46.8	9.06	8.16	8.28	25.8	-8.16	-5.7	-6.9	20.76	12.18	9.96	10.8	32.94	--	--
22 01:40	230.6	230.3	232.3	--	--	--	51.9	42.9	45.96	9.18	8.16	8.46	25.8	-8.56	-5.32	-6.48	19.56	11.94	9.9	10.68	32.82	--	--
23 01:45	230.8	229.8	231.1	--	--	--	51.36	42.8	45.96	8.7	7.92	7.92	24.34	-7.92	-5.84	-6.72	20.28	11.76	9.72	10.38	31.86	--	--
24 01:50	230.1	229.6	231.9	--	--	--	58.32	50.88	51.6	11.24	10.56	10.32	33.12	-8.4	8.94	-6	14.94	13.38	11.64	11.94	36.96	--	--
25 01:55	230.1	230.2	232	--	--	--	52.86	49.8	49.26	10.38	10.08	9.12	29.58	6.3	-5.34	6.9	18.54	12.12	11.46	11.4	34.98	--	--
26 02:00	230.2	229.8	230.5	--	--	--	53.58	48.12	46.98	10.44	9.24	8.28	27.96	6.36	5.88	6.84	19.08	12.24	10.98	10.8	34.02	--	--
27 02:05	231	230	232.8	--	--	--	53.16	47.88	44.7	10.38	9.18	7.98	27.64	6.54	6.6	6.6	19.14	12.24	10.98	10.38	33.6	--	--
28 02:10	230.7	230.4	232.6	--	--	--	52.32	46.68	43.68	10.26	8.94	7.8	27	6.3	6.88	6.42	18.6	12.06	10.74	10.14	32.94	--	--

6. Acrel IoT Energy Monitoring System (Partial Introduction)

Main Function of WEB side System:

- (1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

(4) Energy Report (Daily): This Interface show the daily energy consumption report (calculated by forward active energy)

Energy Node	00:00		01:00		02:00		03:00		04:00	
	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)
A	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32
B	0.00	31.20	0.00	19.20	0.00	15.20	0.00	22.40	0.00	30.40
C	0.00	46.40	0.00	30.40	0.00	28.00	0.00	39.20	0.00	40.80
D	0.00	8.80	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9.60
E	0.00	12.00	0.00	11.20	0.00	11.20	0.00	11.20	0.00	11.20
F	0.00	39.20	0.00	39.20	0.00	40.80	0.00	32.80	0.00	32.80
G	0.00	32.80	0.00	32.80	0.00	32.80	0.00	32.80	0.00	32.80
H	0.00	29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	29.60
I	0.00	17.60	0.00	21.60	0.00	20.80	0.00	20.80	0.00	20.80
J	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40
K	0.00	24.80	0.00	21.60	0.00	20.80	0.00	20.80	0.00	20.80
L	0.00	40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.80
M	0.00	0.00	0.00	0.80	0.00	0.80	0.00	0.80	0.00	0.80
N	0.00	42.40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	44.40
Total	0.00	387.52	0.00	348.32	0.00	401.92	0.00	356.32	0.00	389.92

(4) Energy Report (Daily): This daily energy report could be also export to computer in "Excel" format

Energy Node	00:00	01:00	02:00	03:00	04:00	05:00	06:00
A	0.32	0.32	0.32	0.32	0.32	0.32	0.32
B	31.20	19.20	15.20	22.40	32.00	30.40	30.40
C	46.40	30.40	28.00	39.20	40.00	40.80	40.80
D	8.80	9.60	9.60	9.60	9.60	9.60	9.60
E	12.00	11.20	11.20	11.20	11.20	11.20	11.20
F	39.20	39.20	40.80	32.80	40.00	32.80	32.80
G	32.80	32.80	32.80	32.80	32.80	32.80	32.80
H	29.60	29.60	29.60	29.60	29.60	29.60	29.60
I	17.60	21.60	20.80	20.80	20.80	20.80	20.80
J	30.40	30.40	30.40	30.40	30.40	30.40	30.40
K	24.80	21.60	20.80	20.80	20.80	20.80	20.80
L	40.00	40.80	40.80	40.80	40.80	40.80	40.80
M	0.00	0.80	0.80	0.80	0.80	0.80	0.80
N	42.40	26.40	47.20	47.20	47.20	47.20	44.40
Total	387.52	348.32	401.92	356.32	389.92	389.92	387.50

(4) Energy Report (Monthly & Yearly): Same as daily energy report, monthly and yearly energy report could be also checked on platform and exported in "Excel" format.

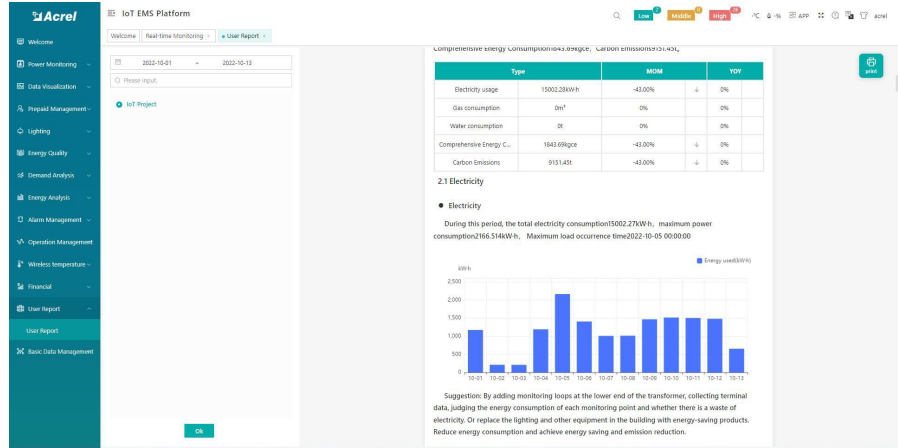
Energy Node	01		02		03		04		05	
	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)	Cost(Y)	Consumption(kWh)
A	0.00	2.76	0.00	2.82	0.00	2.81	0.00	2.17	0.00	1.72
B	0.00	2.76	0.00	2.82	0.00	2.81	0.00	2.17	0.00	1.72
Total	0.00	2.76	0.00	2.82	0.00	2.81	0.00	2.17	0.00	1.72

6. Acrel IoT Energy Monitoring System (Partail Introduction)

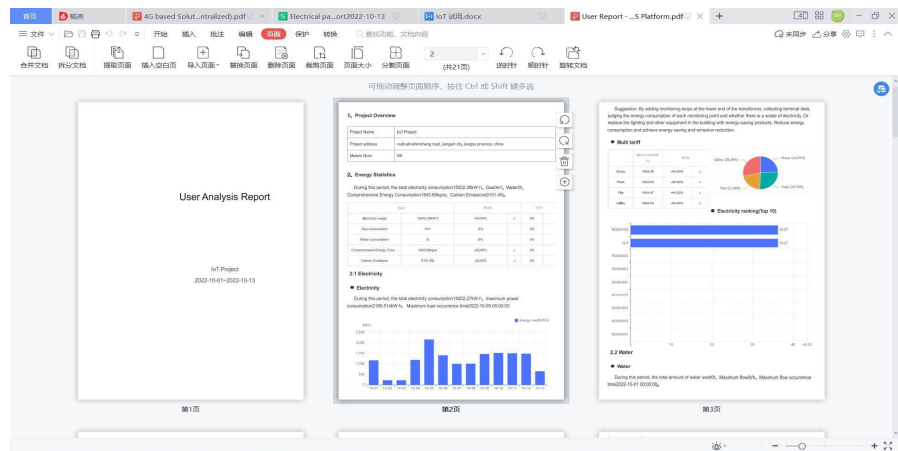
Main Function of WEB side System:

- (1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

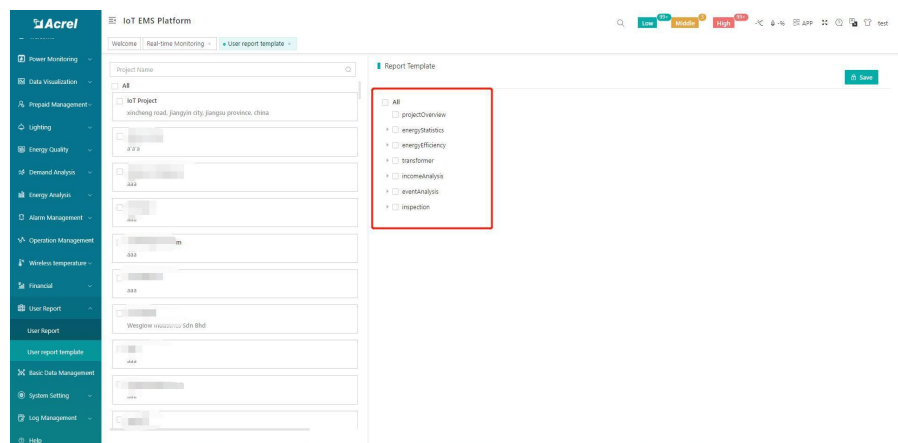
(5) User Report: A comprehensive user report including project overview, energy report, energy analysis and etc could be check on platform



(5) User Report: User report could be exported in "PDF" format into your PC for convenient check and storage.



(5) User Report: User report support template customization in buy-out service of Acrel IoT Energy Monitoring System.

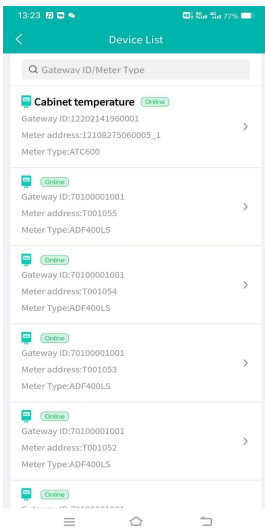


6. Acrel IoT Energy Monitoring System (Partail Introduction)

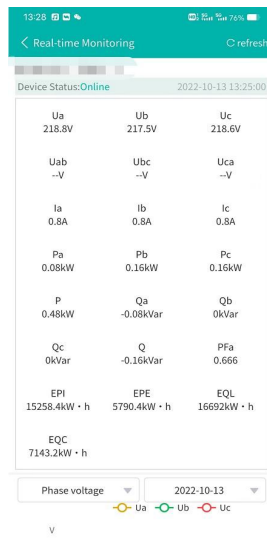
Main Function of APP side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Trend (5) Energy Consumption Report (Daily, Monthly, Yearly)

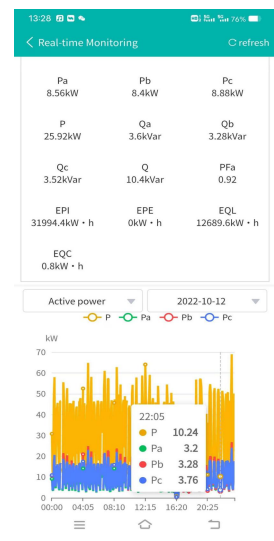
Noted: Since APP side and WEB side of Acrel IoT Energy Monitoring System share the same data, normally recommend our user to add the devices to their account using APP and check the data using WEB platform.



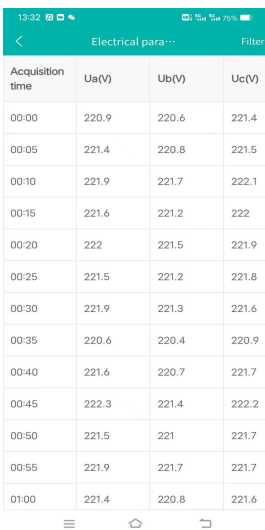
(1) Device List



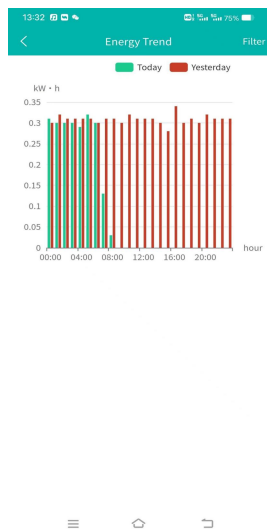
(2) History Curve



(2) History Curve



(3) Parameter Report



(4) Energy Trend



(5) Energy Report