

1. Scenario Preset

- (1) There are 10 Area which are far from each other or are hard for RS485 wiring.
- (2) Each Area has 1 circuit 3-phase that needed to be monitored online.
- (3) Each circuit are with rated voltage of 400Vac L-L&230Vac L-N, and with rated current of 150A AC.

(4) Circuits' current are carried by cable, of which the size was suitable for 24mm aperture. (diameter)

(5) For the places that we gonna install the wireless energy meter, it's covered by stable WiFi signal

for WiFi communications. All the WiFi energy meters will be of separate installation and directly send data to IoT system.

2. Devices Deployment Plan

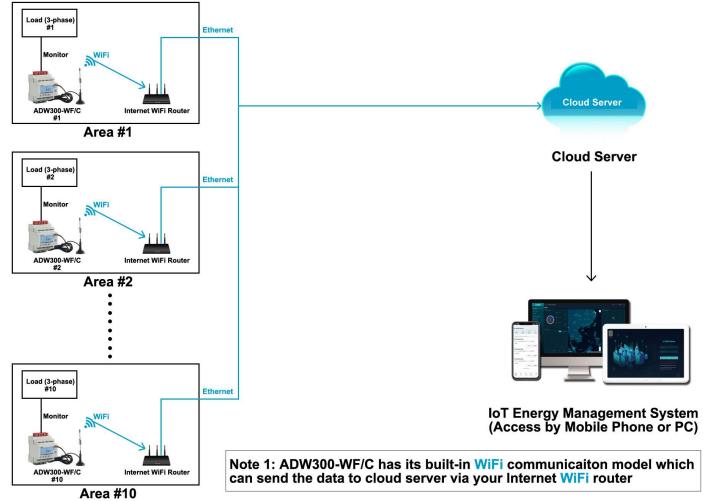
Area #1 - Power Circuit [3-phase] #1:

- 1* ADW300-WF/C WiFi 3-phase Energy Meter [For monitoring Power Circuit #1 & WiFi Data Upstream]
- 3* AKH-0.66/K K- 24 150/5 Split-core Current Transformer [For current input of ADW300-WF/C]

. Area #10 - Power Circuit [3-phase] #10:

- 1* ADW300-WF/C WiFi 3-phase Energy Meter [For monitoring Power Circuit #10 & WiFi Data Upstream]

- 3* AKH-0.66/K K- 24 150/5 Split-core Current Transformer [For current input of ADW300-WF/C]



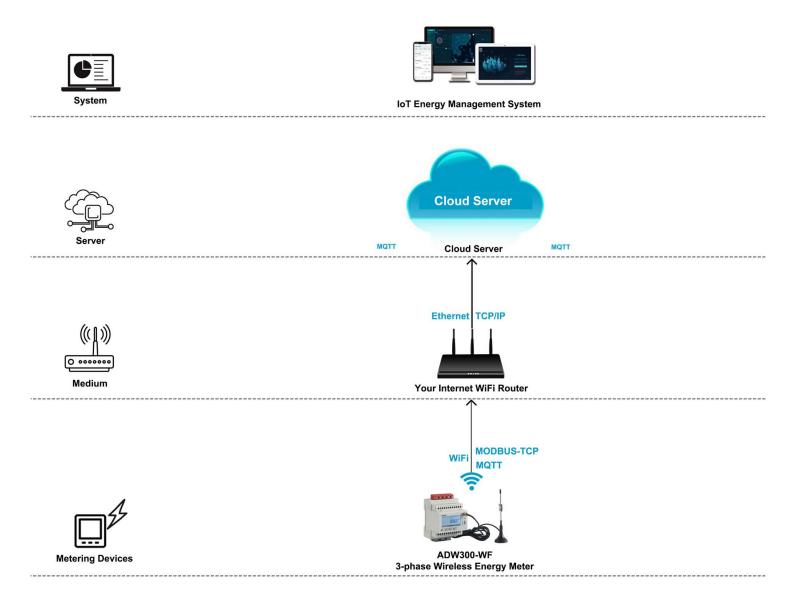


2. Communication Structure&Logic

WiFi Communication could be served as one of the final data upstream methods by sending the data to cloud server deployed in Internet via your WiFi Internet Router so that Acrel IoT System could be interact with these data collected by bottom metering devices like Energy Meter
 ADW300-WF/C Wireless WiFi 3-phase Energy Meter has a built-in WiFi communication module which allow it to directly send data to your Internet WiFi Router using MQTT and MODBUS-TCP protocol without using a extra WiFi IoT Gateway. Then your WiFi router will send the data further to internet for a final data upstreaming.

(3) In the factory manufacturing stage, we can set the WiFi configuration (WiFi SSID and password) in ADW300-WF/C so that users don't need to set WiFi configuration again.
(4) ADW300-WF/C also have a RS485 communication normally used for devices adjustment with

Acrel ADW300 adjustment softare. For example, setting like WiFi configuration could be done.





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

Model 1: ADW300-WF/C WiFi 3-phase IoT Energy Meter

Monitoring: Up to 1 circuits 3-phase [AC Metering]

- Wireless Comms.: WiFi [MQTT, MODBUS Protocol]
- Wired Comms.: RS485 [MODBUS-RTU Protocol]
- Rated Current: 3x1(6)A AC [via -/5A CTs.]
- Rated Voltage: Up to 3x660Vac L-L
- Certificate&Standard: CE, CE-RED
- More Introduction: https://www.acrel-electric.fr/product/

adw300_iot_wireless_smart_energy_meter



Model 2: AKH-0.66/K K- 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





3. Overall Model Selection&Quoation

(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 ice or Buy-out Service after 3- ial of Cloud IoT System)
		been sent to cloud s	II the meters across the country whose data has server through 4G,WiFi or Ethernet . ading and data collection.	\$0 (recommended in pilot pro	ojtect)	3-m	onth Free Trail ed to rent a cloud server))
		4.Generate energy of period with year-on-	for mobile phone side and IoT WEB for PC side. data report of daily, monthly and annually yeay and period-on-period energy analysis.	\$xxx/Year (For 10 Poir (Price for Host Service 0 recommended in pilot pro	Only,	connected	Service for 1 monitoring points to the system 1 year ed to rent a cloud server)
Acrel Cloud IoT Energy Manager	nent System	of the system and p	larm function to ensure a stable operation rotect your property. e trial of system with full technical support or pilot project.	\$xxxxPermanent (Limitless (Price for Buy-out Serv Only,recommended in late p	ice	permanent use (Lim	\$xxxx for Buy-out Service of itless monitoring points and a need to be rent by users)
			Cloud Server				
Name			Description	Server Renting Price (For Reference Only			Remark
Cloud Server Cloud Server		Cloud. 2.Users of Cloud lo cloud server when th System . And if they our Cloud IoT Syste rent on Amazon so t	d be rent on the cloud server provider like Amazon T Energy Management System only need to rent hey choose buy-out service of our Cloud IoT are using hosting service or 3-month free trial of em, we will use our own cloud server which has been that users don't need to rent a cloud server. Cloud Server is only a reference price that we have ud.	According to Specs of Rente Server	ed Cloud	1000~2000 monito	erver specs could support bings points connected to the system er: 8 core 16G m: windows server 2016)
		1	WiFi Wireless Energy Met	er			
Overview Picture	USAGE&MO	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	NIT PRICE (USD)	AMOUNT (USD)
		eless Energy Meter)0-WF/C	Communication: WiFi Wireless Communication (2.4GHz)&RS485 (MODBUS-RTU) Rated Voltage: 3x380~456Vac L-L or 3x660Vac L-L (45~65Hz) Rated Current: 3x1(6)A AC (via CTs) Auxiliary Power Supply: 85~265Vac	10 pcs		1	I
			Paired Split-core CT				
Overview Picture	USAGE&MO	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	NIT PRICE (USD)	AMOUNT (USD)
		ent Trasnformer 6/ К К-φ24	Current Ratio: 150/5A AC Aperture: @24mm (diameter) Accuracy: Class 1.0 Application: For current input of ADW300-WF/C	30 pcs		I	1



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: acrelTest 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



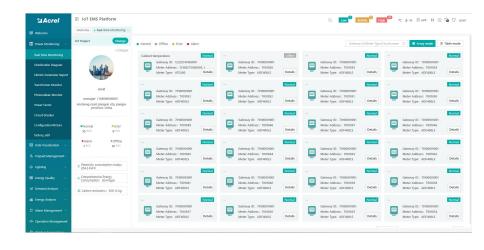
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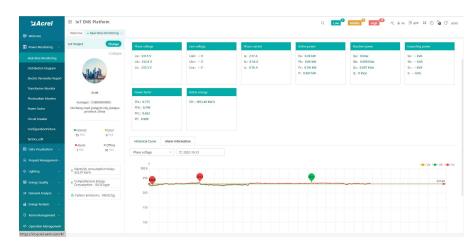
Main Function of WEB side System:

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

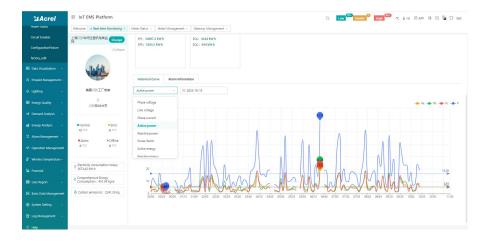
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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.





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

Welcome + Real-time Monitoring + Bectric Parameter Re	port +																				
MS Project Change	Site B						> Pt	ane voltag		O Search	/ # Expo	et									
	Acquisit	-								-										EPIGAW	
	on time	Select	Parameter	5							×	PSIAN)	Pc(kW)	P(kW)	Qu(846ar)	C(b(kVar)	Qc(kVar)	Q(Mirr)	Pfa	N	
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(3) Electricity Parameters Report: All the electricity parameters that could be collected by certain energy meter will showed as a report here.

Sa Acrel	E IoT EMS Platform											Q 🚺	··· ···	ddle 0	High 25	-C 4-	6 82 APP	H ①	B 17 307
	Welcome Real-time Monitoring - Electric Pa	rameter Repo	it ×																
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sformer Monitor	RDOM002	24	9.84	8.46	8.46	26.76	-8.34	-5.82	-6.84	21	12.9	10.26	10.85	34.02					139429.
ovaltaic Monitor	> 1/F > 2/F	98	10.14	8.76	8.76	27.66	-7.74	-6.05	-7.02	20.82	13.2	10.68	11.28	35.16					139432
	> 2/F	76	9.54	8.64	8.34	26.52	-8.28	-6.06	-6.6	20.94	12.6	10.56	10.86	34.02					139434
	> 4/F	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					139436
	5/F	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					139439
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xy_edit	11	48	9.78	8.94	8.52	27.24	-7.5	-6.18	-6.9	20.58	12.9	10.92	10.98	34.8					139443
a Visualization	232	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					139449
	70100001001_T001002	45	9.78	8.58	8.4	26.76	-8.46	-6.05	-6.9	21.42	12.96	10.5	10.92	34.38					139448
	70100001001_T001003 70100001001 T001004	56	13.56	11.4	11.82	36.78	3.36	-4.8	-6.36	14.52	15.48	12.36	13.44	41.28					139450
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	70100001001_T001009	14	10.02	8.22	8.22	26.46	-8.28	-5.88	-5.84	21	12.96	10.08	10.68	33.72					139460
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	70100001001_T001012 70100001001 T001013														291 1	ó/page v	< 1	2 >	Go 10 1

(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.

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00:35		226.2		228.6				59.04	47.16	48.36	10.38	8.76	8.58	27.73	-8.04	-6.12	-6.9	21.06	13.32	10.68	11.04					١,
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8 01:20		230.5	231.2	232.8				55.56	5 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				
9 01:25		230.8	231.2	232.7				60	44.4	47.22	10.92	8.28	8.34	27.54	-4.44	-5.94	-7.08	17.46	13.8	10.26	10.98	35.04				
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3 01:45		229.8	229.5	231.1				51.30	5 42.6	45.06	8.7	7.92	7.92	24.5	-7.92	-5.64	-6.72	20.28	11.76	9.72	10.38	31,86				
4 01:50		230.1	229.6	231.9				58.33	2 50.88	51.6	12.24	10.56	10.32	33.11	5.4	3.54	-6	14.94	13.38	11.64	11.94	36.96				
5 01:55		230.1	230.2	232				52.80	5 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				
6 02:00		229.2	228.8	230.5				53. 58	3 48, 12	46.86	10.44	9.24	8.28	27.96	6.36	5.88	6.84	19.08	12.24	10.98	10.8	34.02				
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8 02:10		230.7	230.4	232.6				52. 33	46.65	43.68	10.26	8.94	7.8	27	6.3	5.88	6.42	18.6	12.06	10.74	10.14	32.94			v	
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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 consumtion report (calculated by forward active energy)

Sa Acrel	E IoT EMS Platform						Q	Low Midd	le High	🚥 -c 6-% 8	APP 💥 🛈	🖫 î test
Welcome	Welcome Real-time Monitoring - Energy Report											
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Energy Report	0 0 10	•	0.00	17.60	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80
Collecting Report	2 J0 2 J0		0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40
Multiple Rate Report			0.00	24.80	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80
Energy Rank			0.00	40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.80
Loss Analysis			0.00	0.00	0.00	0.80	0.00	0.80	0.00	0.80	0.00	0.00
			0.00	42.40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40
treegy flow				****		5.0.25		54.95		11.05		11.15

(4) Energy Report (Daily): This dailyenergy report could be also exportto computer in "Excel" format

前页	🕑 紅夾	🚾 2.通讯配	2022 🖓	☑ 通讯配置…022) .	😰 安科瑞美pdf 🛛		. WiFiotation 👳 🔹	P Buildin	System 🖓 🔹 🧧	Daily Repor	t.xlsx ⊕ × +	6[1 88 😳 -	6
2	#~ 回饱@) 🗟 🗅 ८ 👓 🚺	141 通入	页面布局 公式	教課 前洋	視園 开发工具	会员专家	杨先资源 智能工具	箱(三重	找命令、提家模板		4	③末同步 。	合物作 凸分享	
	入 550 合 〇 95% · 株式制	₩¢# - Β/⊻⊞-52		A* A* = = = = = = = = = = = = = = = = =		田 [元] 常規 日本・自动旅行 羊・	% 000 +.0	·	- 12 ≠元		▲ ↓	□ □ 〒 • ☆元瓶・行和列・	₽ 1作表・ ;	日元 日 5点回答- 未花	
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	50	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.30	
	2	(31.20	0.00	19.20	0.00	36.00	0.00	15.20	0.00	22.40	0.00	32.00	0.00	30.40	
) 46.40	0.00	30.40	0.00	44.80	0.00	28.00	0.00	39.20	0.00	40.00	0.00	40.80	
		-8.80	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9.60	
3		- 12.00	0.00	11.20	0.00	12.00	0.00	11.20	0.00	11.20	0.00	12.00	0.00	12.00	
y		- 39. 20	0.00	39.20	0.00	40.80	0.00	32.80	0.00	47.20	0.00	40.00	0.00	39.20	
У		32.80	0.00	32.80	0.00	33.60	0.00	32.80	0.00	12.80	0.00	32.80	0.00	32.80	
y	N	-29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	29.60	0.00	28.80	
У	N S S	- 17.60	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	
y	K. ·	- 30. 40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	29.60	
У	K	24.80	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	0.00	20.80	0.00	20.80	
У		- 40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.00	0.00	40.80	
1		-0.00	0.00	0.80	0.00	0.80	0.00	0.80	0.00	0.00	0.00	0.80	0.00	0.80	
		0(42.40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40	0.00	45.60	0.00	47.20	
	5	32.00	0.00	34.40	0.00	34.40	0.00	34.40	0.00	34.40	0.00	34.40	0.00	33.60	
1	otal	387.52	0.00	348.32	0.00	401.92	0.00	356.32	0.00	365.92	0.00	389.92	0.00	387.50	
															٦.
	Shi	eetJS +						1.4							
	平均值=0 计数=2	-									診⊕- I	目回回 100%~			+

(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.

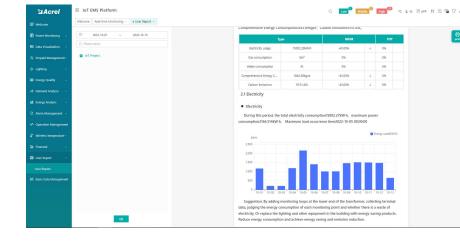
ଧAcrel	IoT EMS Platform							Q	Low Nidd	e ⁽¹⁾ High ⁽²⁾	-1C & -56 BR	ADD 12 (0) [acral
B Welcome	Welcome Real-time Monitoring × User Report ×	Electric I	Parameter Report ×	Energy Report ×									
Power Monitoring	IoT Project Change	Energy	Consumption Co	mprehensive Energ	ry Consumption	Carbon Dicoide Er	missions						
🖽 Data Visualization 🖂	Enter search content here	Energy	Consumption: Ele	ctric	U Date:	Month 🗠 🗐	2022-10	Ci Sea	rch < Chart	# Export			
& Prepaid Management ~	All Cascading			01		Day		03		04		05	
⇔ tighting ~	RCOM001		Energy Node	Cost(S)	Consumption	Month	Consumption(k	Cost(\$)	Consumption(k W-b)		Consumption(k		Consumptio
🗃 Energy Quality 🖂	ROOM002				W40	Year	W4b)				W-h)		W(b)
54 Demand Analysis ~	> 🛄 1/F		G/F	0.00	2.76	0.00	2.92	0.00	2.01	0.00	2.17	0.00	1.72
	 2/F 3/F 		RDOM001										
🛍 Energy Analysis 🗠	· 4/F		RDOM002										
Yoy Analysis	5.4		Total	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
MoM Analysis	12203162030001_12203162030001_1												
Energy Trend	0.0												
	232												
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Multiple Rate Report	70100001001_7001004												
Energy Rank	70100001001_1001005												
	70100001001_1001007												
Loss Analysis	70100001001_T001008												
Energy Flow	70100001001_T001009												
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A Operation Management	70100001001_T001011												
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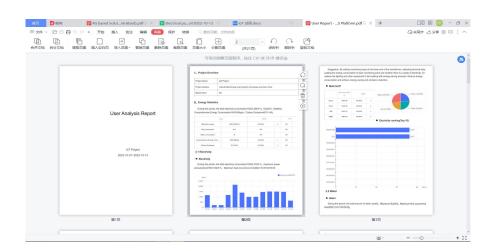
Main Function of WEB side System:

(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 Monitoirng System.

Sa Acrel	E IoT EMS Platform	Q. Low 200 MASHE 9 High 200 - K & -K & APP 🛍 🛈 best
	Welcome Real-time Monitoring + User report template +	
	Project Name	Report Template
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	Int Project sincheng road, Jiangyin city, Jiangsu province, china	Al projectOverview
		energy/Statistics
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User Report	Wegtow masses Sdn Bhd	
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Help		



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.

13:23 😰 🖼 💊	🖽 🏭 🖏 77% 💷
Q Gateway ID/Meter Type	
📮 Cabinet temperature 🛛 🕬	
Gateway ID:12202141960001	>
Meter address:12108275060005_1	
Meter Type:ATC600	
Coline	
Gateway ID:70100001001	>
Meter address:T001055	/
Meter Type:ADF400LS	
P Online	
Gateway ID:70100001001	
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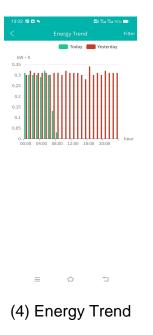
(1) Device List

13:32 🛙 🖬 🛸			75% 💷
<	Electrical p	ara…	Filter
Acquisition time	Ua(V)	Ub(V)	Uc(V)
00:00	220.9	220.6	221.4
00:05	221.4	220.8	221.5
00:10	221.9	221.7	222.1
00:15	221.6	221.2	222
00:20	222	221.5	221.9
00:25	221.5	221.2	221.8
00:30	221.9	221.3	221.6
00:35	220.6	220.4	220.9
00:40	221.6	220.7	221.7
00:45	222.3	221.4	222.2
00:50	221.5	221	221.7
00:55	221.9	221.7	221.7
01:00	221.4	220.8	221.6

(3) Parameter Report

13:28 😰 🖼 💊		🖽 Xa %a 76% 🔲
Device Status: <mark>Onlin</mark>	e	2022-10-13 13:25:00
Ua	Ub	Uc
218.8V	217.5V	218.6V
Uab	Ubc	Uca
V	V	V
la	Ib	Ic
0.8A	0.8A	0.8A
Pa	Pb	Pc
0.08kW	0.16kW	0.16kW
Р	Qa	Qb
0.48kW	-0.08kVar	0kVar
Qc	Q	PFa
0kVar	-0.16kVar	0.666
EPI	EPE	EQL
15258.4kW • h	5790.4kW + h	16692kW • h
EQC		
7143.2kW • h		
Phase voltage	•	2022-10-13 💌
	Ua	Ub -O- Uc
V		

(2) History Curve





(2) History Curve

13:34 🔞 🖬 💊	10년 월대 월대 74% 💶 🕅	
<	Data report	Filt
energy	comEnergy	CO2
Circuit name	17:00	
	Cost(¥)	Consumpt on(kW · h)
z	0.00	0.80
)	0.00	22.40
	0.00	38.40
	0.00	17.60
	0.00	18.40
Total	0.00	97.60
=	\sim	÷

(5) Energy Report