

# 1. Scenario Preset

(1) There are 10 Houses in a certain area power by 1-phase power system, each house is far from each other so impossible for centralized installation of energy meters.

(2) For each house, we need to monitor the main incoming circuit 1-phase of it for monitoring the overall house's power consumption.

(3) Rated voltage of this main incoming circuit 1-phase is 230Vac L-N, and rated/max current was no more tha 100A AC. (The rated current of circuit normally same to the CB's rated current of this monitored main circuit 1-phase).

(4) For the places that we gonna install the energy meter, they are covered by stable 4G signal.

(5) Eventually, for each house we only need 1 pcs ADW310-D16-4GHW/C 1-phase 4G Energy Meter

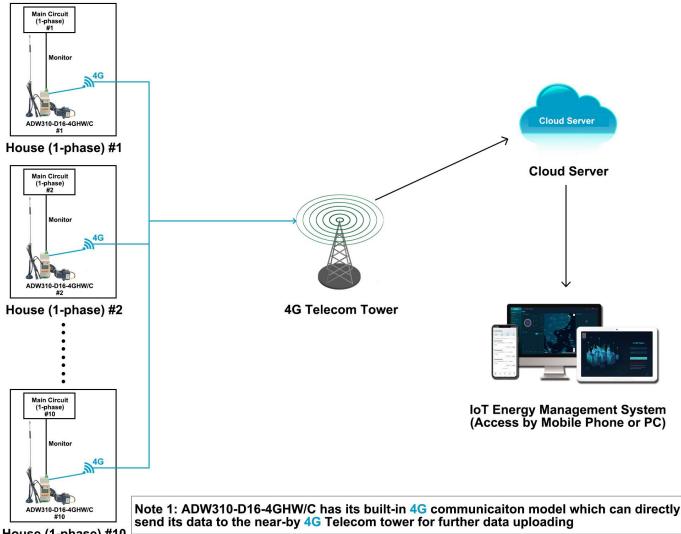
### 2. Devices Deployment Plan

#### House (1-phase) #1:

- 1\* ADW310-D16-4GHW/C Wireless 4G Energy Meter.

# House (1-phase) #10:

- 1\* ADW310-D16-4GHW/C Wireless 4G Energy Meter



House (1-phase) #10



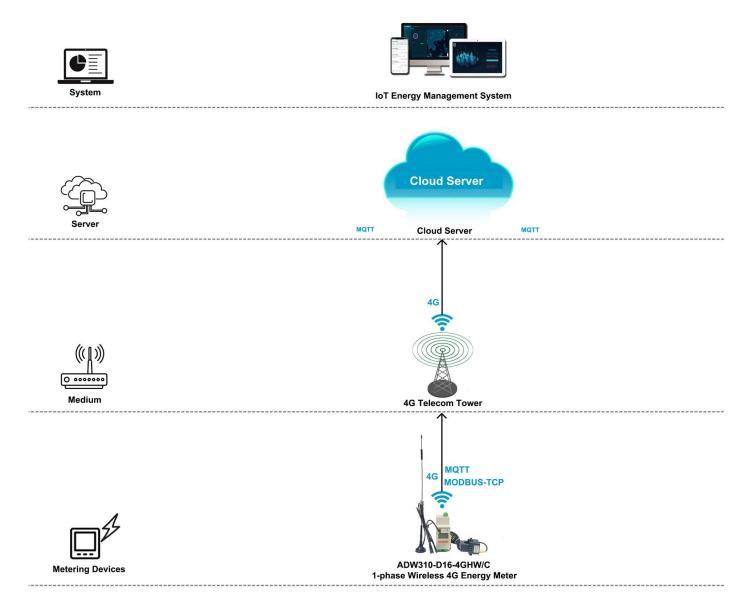
#### 3. Communication Structure&Logic

(1) 4G 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) ADW310-D16-4GHW/C Wireless 4G 1-phase Energy Meter has a built-in 4G communication module which allow it to directly send data to local 4G telecom tower through 4G signal based on MQTT and MODBUS-TCP protocol without using a extra 4G IoT Gateway.

(3) Each ADW310-D16-4GHW/C has a 4G card tray for installing the 4G sim card which could be bought from your local 4G service provider.

(4) ADW310-D16-4GHW/C also have a RS485 communication normally used for devices adjustment with Acrel ADW310 adjustment softare.





#### 4. 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 <b>Cloud IoT System</b> )
		been sent to cloud s	II the meters across the country whose data has server through <b>4G,WiFi or Ethernet</b> . ading and data collection.	\$0 (recommended in pilot pr	ojtect)	3-m	onth Free Trail ed to rent a cloud server))
		4.Generate energy period with year-on-	for <b>mobile phone</b> side and <b>IoT WEB</b> for <b>PC</b> side. data report of daily, monthly and annually -yeay and period-on-period energy analysis.	\$140/Year (For 10 Poin (Price for Host Service 0 recommended in pilot pro	Only,	connected	Service for 1 monitoring points to the system 1 year eed to rent a cloud server)
Acrel Cloud IoT Energy Manage	ment 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.	\$8000/Permanent (Limitless (Price for Buy-out Serv Only,recommended in late	vice	permanent use (Su	\$8000 for Buy-out Service of pport OEM and a cloud server be rent by users)
			Cloud Server				
Name			Description	Server Renting Price (For Reference Only			Remark
Cloud Server Cloud Server		Cloud. 2.Users of Cloud Ic rent cloud server wi System. And if they of our Cloud IoT Sy been rent on Amazo	Id be rent on the cloud server provider like Amazon <b>DT Energy Management System</b> only need to hen they choose <b>buy-out</b> service of our <b>Cloud IoT</b> y are using <b>hosting service</b> or <b>3-month free trial</b> stem, we will use our own cloud server which has on so 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 monite (Serv	erver specs could support bings points connected to the system rer: 8 core 16G rm: windows server 2016)
			4G Wireless Energy Met	er			
Overview Picture	USAGE&MC	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	INIT PRICE (USD)	AMOUNT (USD)
		less Energy Meter 116-4GHW/C	Communication: 4G (MODBUS-TCP, MQTT) & RS485 (MODBUS-RTU) Rated Voltage: 220~264Vac L-N Rated Current: 20(100)A AC (via paired external CTs)	10 pcs	(herber die	\$	
		l Split-core Current former	Current Ratio: 100A/25mA AC Aperture: @16mm Appliaction: Paired with ADW310-D16-WF/C for current input	10 pcs		g both Energy meter I External CTs)	



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## 5. 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: 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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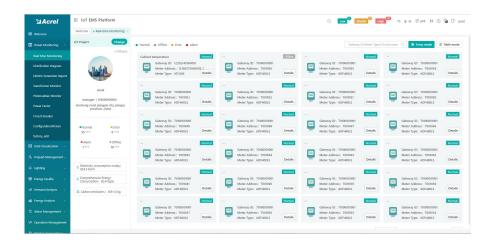
Author: Aaron Shi E-mail: aaron@acrel.cn Website: www.acrel-electric. ke

# 5. Acrel IoT Energy Monitoring System (Partail Introduction)

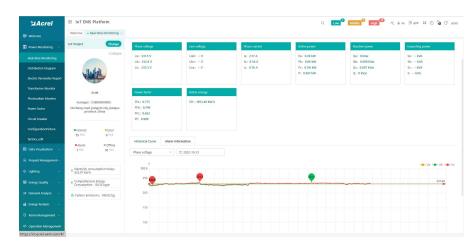
Main Function of WEB side System:

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

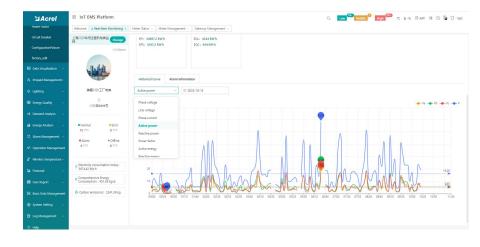
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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

IoT EMS Platform     Welcome - Resisting Monitoring	· Flectric Parameter Re													Q.			× -<: 6-3	DI AFF	
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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.

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tarsformer Monitor	RDOM002	24	9.84	8.46	8.46	26.76	-8.34	-5.82	-6.84	21	12.9	10.26	10.86	34.02					139429.
hotovalteic Monitor	> 1/F > 2/F	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
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	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
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	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
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	70100001001_T001007	64	9.42	8.28	8.34	26.04	-8.28	-5.88	-6.95	21.12	12.54	10.14	10.85	33.54					139455
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(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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2 00:50		228.1	228.5	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			
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2 01:40		230.6	230.5	232.3				51.9	42.9	45.96	9.18	8, 16	8,46	25.8	-7.56	-5.52	-6.48	19.56	11.94	9.9	10.68	32, 52			
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### 5. 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

(4) Energy Report (Daily): ThisInterface show the daily energyconsumtion report (calculated byforward active energy)

Sa Acrel	E IoT EMS Platform						Q	Low Midd	le High	🚥 -c 6-% 8	APP 💥 🛈	🖫 î test
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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
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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

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	30		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	431,20	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	
		- 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	
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4		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	
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м		-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	
ж		- 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	
w		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	
уİ		- 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	
		-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	
To	tal	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	
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(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.

≌Acrel	≡ IoT EMS Platform							Q	Low Midd	e <sup>O</sup> High <sup>OS</sup>	-c è-s 89	APP 11 (1)	acrel
III Welcome	Welcome Real-time Monitoring × User Report ×	Electric I	Perameter Report ×	Energy Report ×									
D Power Monitoring	IoT Project Change	Energy	Consumption Cor	nprehensive Energ	y Consumption	Carbon Dicoide Em	issions						
🖼 Data Visualization 🖂	Enter search content here	Energy	Consumption: Elec	tric	U Date:	Month 🔿 🗏 a	1022-10	O Sea	rch < Chart	# Export			
A Prepaid Management∽	All Cascading			01		Day		03		04		05	
	RCOM001		Energy Node	Cost(5)	Consumption	Month	Consumption(k W-b)	Cost(\$)	Consumption(k W-b)	Cost(\$)	Consumption(k	Cost(\$)	Consumptio
🐻 Energy Quality 🖂	ROOM002				W-h)	Yaar					10000		Web)
	• 🗆 1/F		G/F	0.00	2.75	0.00	2.92	0.00	2.01	0.00	2.17	0.00	1.72
s# Demand Analysis ~	* _ 2/F		ROOM001										
🛍 Energy Analysis 🗠	· 🗌 3/F		RDOM002										
Yoy Analysis	· 44 54		Total	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
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	70100001001_T001004												
Multiple Rate Report	70100001001_T001005												
Energy Rank	70100001001_T001006												
Loss Analysis	70100001001_T001007												
Energy Flow	70100001001_T001008												
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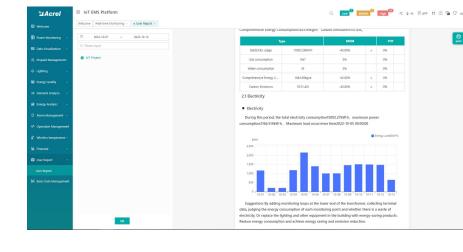


# 5. Acrel IoT Energy Monitoring System (Partail Introduction)

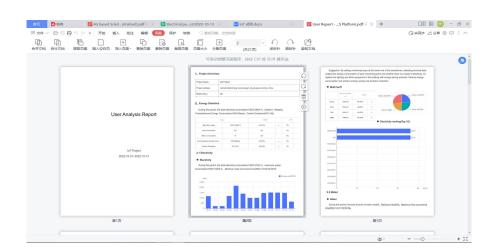
Main Function of WEB side System:

(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 Monitoirng System.

ଧ୍ୟAcrel	IoT EMS Platform	Q	Low 🥙 Middle <sup>3</sup> High <sup>200</sup> -C &-% S APP 🙁 🛈 🖥 🕆 test
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Author: Aaron Shi E-mail: aaron@acrel.cn Website: www.acrel-electric. ke

# 5. 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.

13:23 😰 🖼 🗣	🖽 🏭 🖏 77% 💷
Q Gateway ID/Meter Type	
📮 Cabinet temperature 🛛 🕬	
Gateway ID:12202141960001	>
Meter address:12108275060005_1	í.
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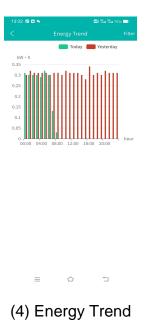
(1) Device List

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 🛙 🖼 💊		🖽 Rat Nat 76% 💶)
Device Status:Online	1	2022-10-13 13:25:00
Ua	Ub	Uc
218.8V	217.5V	218.6V
Uab	Ubc	Uca
V	V	V
la	Ib	lc
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 🖬 🖬 🛸		🕮 🏭 🖏 74% 💷
energy	comEnergy	CO2
Circuit name	17:00	
	Cost(¥)	Consumpti 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
=	$\bigcirc$	1

(5) Energy Report