

#### 1. Scenario Preset

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

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

(3) Rated voltage of this main incoming circuit 1-phase is 230Vac L-N, and rated/max current was no more than 100A AC.

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

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

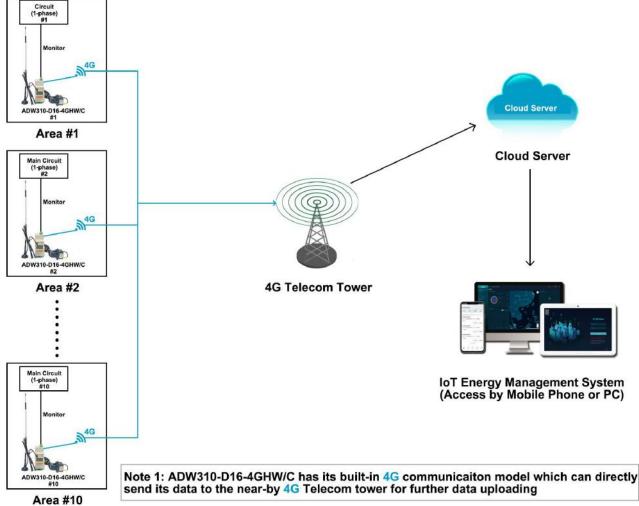
#### 2. Devices Deployment Plan

Area - Power Circuit (1-phase) #1:

- 1\* ADW310-D16-4GHW/C 4G 1-phase Energy Meter [For monitoring Power Circuit #1 & 4G Upstream]

## Area - Power Circuit (1-phase) #10:

- 1\* ADW310-D16-4GHW/C 4G 1-phase Energy Meter [For monitoring Power Circuit #10 & 4G Upstream]





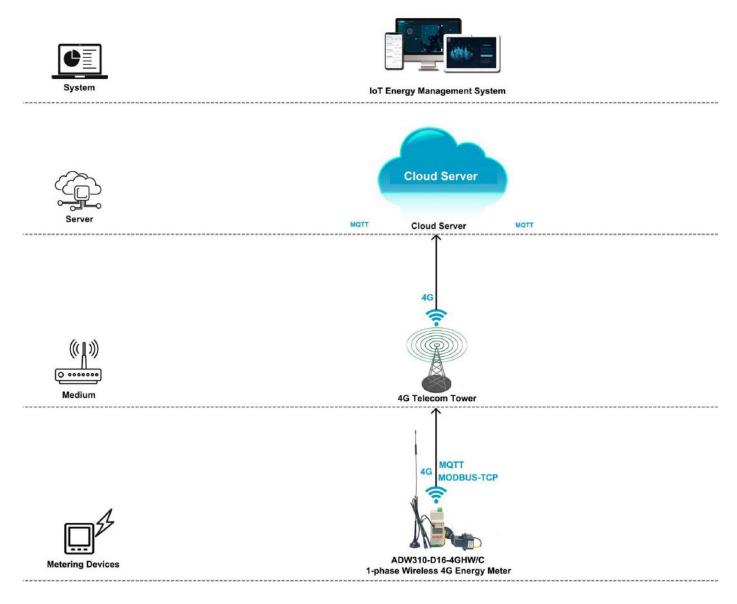
#### 3. Communication Structure&Logic

(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.





Acrel 4G Based IoT Energy Monitoring Solution (3-phase Separate Cloud)

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#### 4. Hardware Devices Overview

#### Model 1: ADW310-Dxx-4GHW/C 4G 1-phase IoT Energy Meter

- Monitoring: Up to 1 circuits 3-phase [AC Metering]
- Wireless Comms.: 4G LTE [MQTT, MODBUS Protocol]
- Wired Comms.: RS485 [MODBUS-RTU Protocol]
- Rated Current: 3x1(6)A AC [via -/5A CTs.]
- Rated Voltage: Up to 220~264Vac L-N
- Certificate&Standard: CE
- More Introduction: https://www.acrel-electric.fr/product/adw310-

iot1-phase-wireless-smart-energy-meter





#### 5. 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 ial of <b>Cloud IoT System</b> )
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	• =	3.Provide IoT APP 4.Generate energy period with year-on	for mobile phone side and loT WEB for PC side. data report of daily, monthly and annually -yeay and period-on-period energy analysis.	\$xxx/Year (For 10 Po (Price for Host Service recommended in pilot p	e Only,	connected	Service for 1 monitoring poin I to the system 1 year aed to rent a cloud server)
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Name			Description	Server Renting Pri (For Reference On			Remark
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			4G Wireless Energy Met	er			
Overview Picture	USAGE&M	ODULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	INIT PRICE (USD)	AMOUNT (USD)
		eless Energy Meter D16-4GHW/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		\$	
k		al Split-core Current nformer	Current Ratio: 100A/25mA AC Aperture: φ16mm Appliaction: Paired with ADW310-D16-WF/C for current input	10 pcs		g both Energy meter d External CTs)	



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

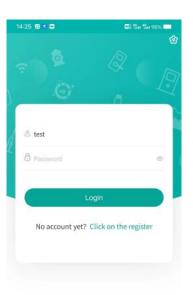
Download Link: https://play.google.com/store/apps/details?id=com.acrel.iotems

(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





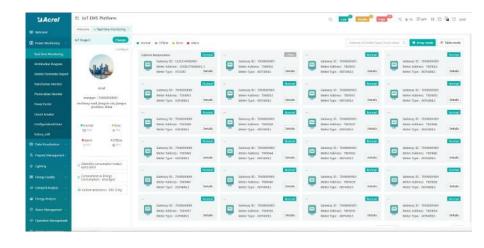
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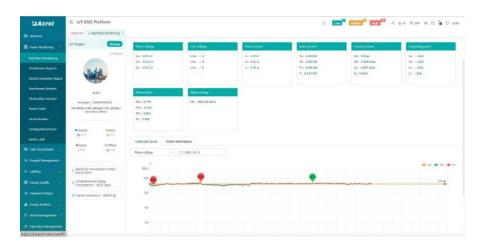
Main Function of WEB side System:

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

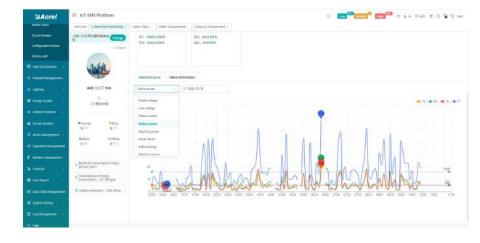
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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

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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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(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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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)

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

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7		0.00	19.20	0.00	36.00	0.00	15.20	0:00	22.40		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	90.00	0, 00	40,80	
	8.30	0.00	9.60	0.00	9.60	0.00	9.60	0, 60	9.60	0.00	9.68	0.00	9.60	
CREW REAL		0.00	11, 29	0,00	12.00	0.00	11.29	0.00	11.20	0.00	12.00	0.00	12.00	
	39.20	0.00	39.20	0.00	40.80	0.90	32.80	0.00	47.20	0.00	40.00	0.00	39.20	
	32, 90	0.00	32.80	0.00	33.60	.0. 00	32.80	0.00	12.80	0.00	32.00	0.00	32.88	
	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	
	17.60	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	D. DD	21.60	0.00	20.80	
	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	
	24.80	0.00	21.60	0.00	28,80	0.00	21.60	0.00	20.80	0.00	20.80	0.00	20,80	
	40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.88	0.00	40.00	0.00	40.80	
	0.00	0.00	0.00	0.00	0.50	0.00	0.80	0.00	0.00	0.00	0.30	0.00	9.60	
	42.40	0.00	26.40	0.00	47.20	0.80	47.20	0.00	46.40	0.00	45.60	0.00	47.20	
	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	
tal	387, 52	0.00	348, 32	0, 00	401. 92	0.00	356, 32	0.00	365, 92	0.00	389.92	0, 60	387, 50	
3 31 Shee	us +						1.040						140	1

(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.

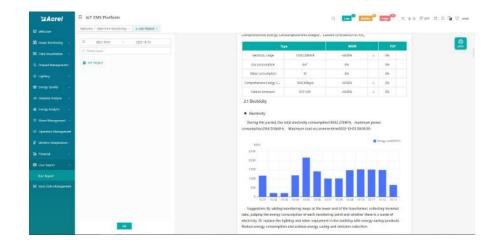
MAcrel	IoT IMS Platform								9	<b>100</b> ° <b>100</b>	1000	- 4 N S	NY 21 (2	. P. 104
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	+12:4 <b>T</b>			Test	0.00	1.76	0.04	2.93	0.00	1.01	0.00	2.17	0.00	3.72
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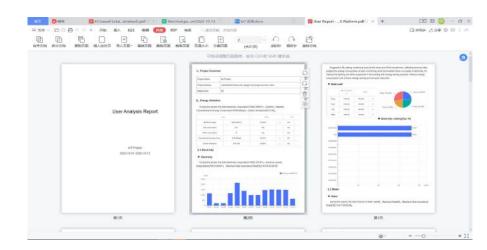
Main Function of WEB side System:

(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.

MAcrel	IB IOT EMS Platform		Q
Prior Mintening	Indicory Resi-Inte Monthatory - a Dear report template		
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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.

23 🗐 🖬 🍉			
	Device List		
Q Gateway ID	/Meter Type		
Cabinet ten	perature 🚥		
ateway ID:1220	2141960001		121
leter address:12	188275060005_1		2
leter Type:ATC6	00		
(00000)			
ateway ID:7015	0001001		1723
leter-address:T(	01055		>
eter Type:ADF4	001.5		
(0000)			
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leter Type:ADF4	OULS		
(11110)			
ateway ID:7010	1001000		12
leter address:70	01052		2
eter Type:ADF4	0015		
(0/10)			
		1.21	

(1) Device List

<	Electrica	sl para 🖓	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

< Real-time Monit	oring	Crefrest
)evice Status <mark>Online</mark>		
Ua	UЪ	Uc
218.SV	217.5V	218.67
Uab	Ubc	Uca
W	V	V
la	lb	lc
0.8A	0.8A	0.8A
Pa	РЬ	Pc
0.08kW	0.16kW	0.16kW
Р	Oa	Ob
0.48kW	-0.08kVar	OkVar
Qc	Q	PFa
OkVar	-0.16kVar	0.666
EPI	EPE	EOL
15258.4kW • h	5790.4kW • h	16692kW • h
EQC		
7143.2kW • h		
Phase voltage		2022-10-13 *
	-O- Ua -O-	Ub -O- Uc

(2) History Curve



=

## (4) Energy Trend



# (2) History Curve

energy	comEnergy	C02
	17:00	
Circuit name	Cost(¥)	Consumpt on(kW+h)
z	0.00	0.80
1	0.00	22.40
-1	50 0.00	38.40
-	0.00	17.60
4	0.00	18.40
Total	0.00	97.60
_	0	-

(5) Energy Report