

0. Scenario Preset

- (1) There are 10 Area which are far from each other or are hard for RS485 wiring.
- (2) Each Area has 1 load 3-phase powered by 1 circuit 3-phase that needed to be monitored.
- (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 φ 24mm aperture.

(diameter)

(5) For each monitoring circuit, we will install 1* ADW300-4GHW/C Wireless 4G 3-phase Energy Meter paired with 3* AKH-0.66/K K-φ24 150/5 for current input.

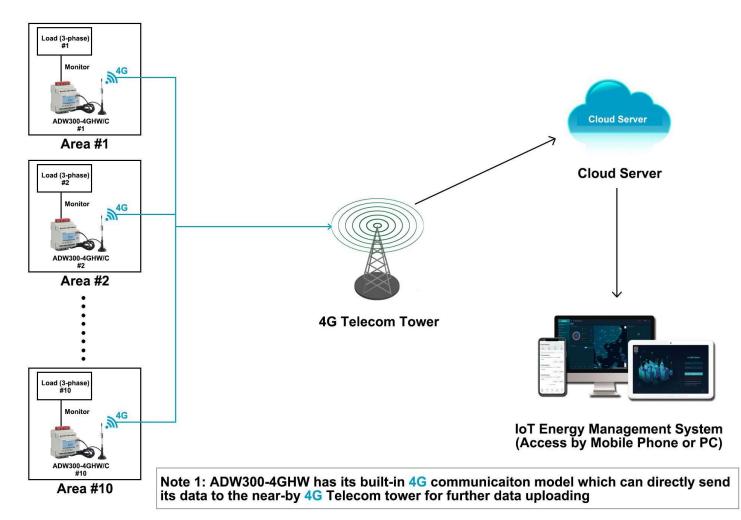
1. Devices Deployment Plan

Area #1 - Load #1:

- 1* ADW300-4GHW/C Wireless 4G Energy Meter
- 3* AKH-0.66/K K-\u00fc24 150/5 Split-core Current Transformer

Area #10 - Load #10:

- 1* ADW300-4GHW/C Wireless 4G Energy Meter
- 3* AKH-0.66/K K-φ24 150/5 Split-core Current Transformer





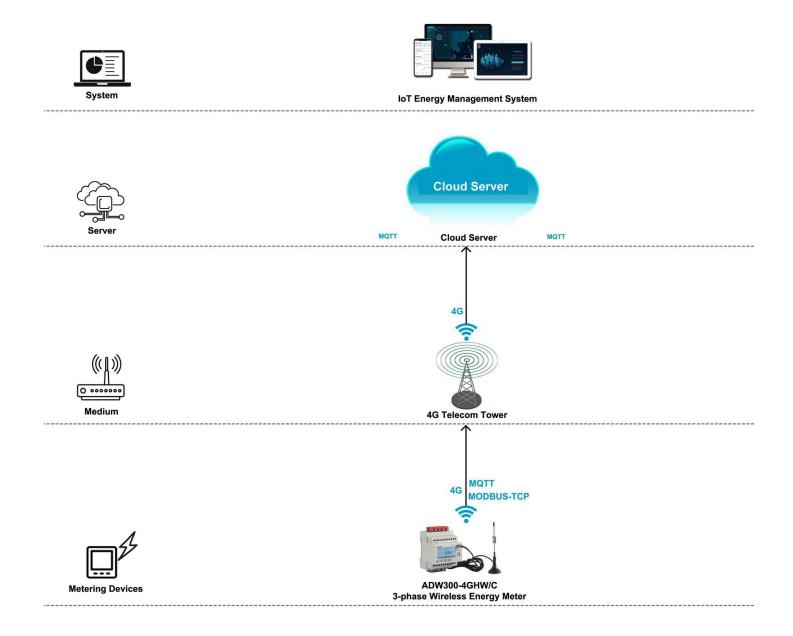
2. Communication Structure&Logic

(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) ADW300-4GHW/C Wireless 4G 3-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 ADW300-4GHW/C has a 4G card tray for installing the 4G sim card which could be bought from your local 4G service provider.

(4) ADW300-4GHW/C also have a RS485 communication normally used for devices adjustment with Acrel ADW300 adjustment softare.





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

Model 1: ADW300-4GHW/C 4G 3-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 3x660Vac L-L
- Certificate&Standard: CE, CE-RED
- More Introduction: <u>https://www.acrel-</u> <u>electric.se/product/acrel-iot-3-phase-4g-wireless-</u> <u>energy-meter-adw300/</u>





Model 2: AKH-0.66/K K-Ф24 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
- More Introduction: <u>https://www.acrel-electric.fr/product/split_core</u> current transformer akh 0 66 k 24

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 Cloud IoT System)
		been sent to cloud s	I the meters across the country whose data has erver through 4G,WiFi or Ethernet . Iding and data collection.	\$0 (recommended in pilot pro	ojtect)	3-m	onth Free Trail ed to rent a cloud server))
		3.Provide IoT APP 4.Generate energy of	for mobile phone side and IoT WEB for PC side. Jata report of daily, monthly and annually yeay and period-on-period energy analysis.	\$xx/Year (For 10 Point (Price for Host Service 0 recommended in pilot pro	Only,	connected	Service for 1 monitoring points to the system 1 year red to rent a cloud server)
Acrel Cloud IoT Energy Manager	nent System	of the system and p	arm function to ensure a stable operation rotect your property. e trial of system with full technical support or pilot project	\$xxxx/Permanent (Limitless (Price for Buy-out Serv Only,recommended in late p	ice		\$xxxx for Buy-out Service of loud server need to be rent by users)
			Cloud Server				
Name			Description	Server Renting Price			Remark
		1 Cloud Server coul	d be rent on the cloud server provider like Amazon	(For Reference Only)		
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 Energy Management System only need to rent tey choose buy-out service of our Cloud IoT are using hosting service or 3-month free trial of m, we will use our own cloud server which has been that users don't need to rent a cloud server. Joud Server is only a reference price that we have	According to Specs of Rente Server	ed Cloud	1000~2000 monito (Serv	enver specs could support sings points connected to the system er: 8 core 16G m: windows server 2016)
			4G Wireless Energy Mete	ər			
Overview Picture	USAGE&MC	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	NIT PRICE (USD)	AMOUNT (USD)
		less Energy Meter 9-4GHW/C	Communication: 4G Wireless Communication (with 4G SIM card)&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	10pcs		1	I
			Paired Split-core CT				
Overview Picture	USAGE&MC	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	NIT PRICE (USD)	AMOUNT (USD)
		ent Trasnformer 6/К К-ф24	Current Ratio: 150Α/5Α ΑC Aperture: φ24mm (diameter) Accuracy: Class 1.0	30pcs		1	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: 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



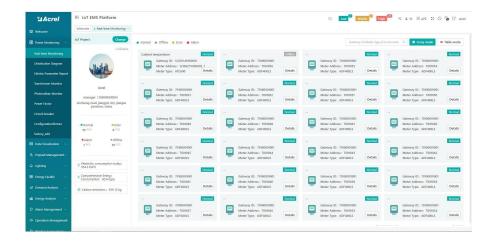
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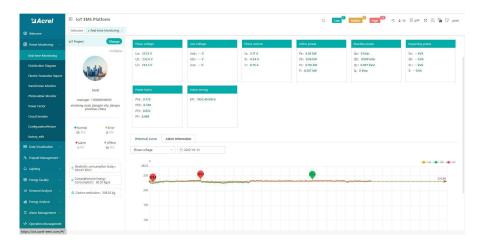
Main Function of WEB side System:

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

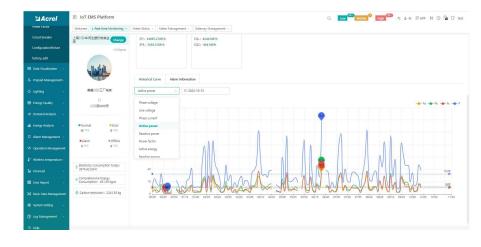
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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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Check All Phase voltage Phase current Al Reactive energy Power factor L

(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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otovalteic 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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wer Factor	* 5)F	14	10.38	9.18	8.64	28.2	-7.44	-6.42	-6.9	20.76	13.5	11.22	11.7	35.82					139436
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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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0	0:55	228. 3	228.8	230.4				67.98	54.24	58.56	13.56	11.4	11.82	36.78	3.36	-4.8	-6.36	14.52	15.48	12.36	13.44	41.28		-	
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0	1:50	230. 1	229.6	231.9				58.32	50.88	51.6	12.24	10.56	10.32	33.12	5.4	3.54	-6	14.94	13.38	11.64	11.94	36.96			
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0	2:05	231	230.7	232.8				53.16	47.58	44.7	10.38	9.18	7.98	27.54	6.54	6	6.6	19.14	12.24	10.98	10.38	33.6			
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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)

	Change	Energy Consumption	Comprehensive Ener	rgy Consumption	Carbon Dioxide I	Emissions						
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	2	Energy Node	Consumption(kW	
	3	30	0.32	0.00
	4		×31.20	0.00
(1) Energy (Denert (Deily)) This deily	5) 46.40 -8.80	0.00
(4) Energy Report (Daily): This daily	0		-8.80	0.00
(')	8	3	- 39, 20	0.00
		W.	32.80	0.00
		W	-29.60	0.00
energy report could be also export	11	ж	-17.60	0,00
chergy report could be also export	12	ж	- 30. 40	0.00
	13	W	24.80	0.00
	14	И	- 40.00	0.00
to computer in "Excel" format	15	1	-0.00	0.00
	16	1	3(42.40	0.00
1	17		32.00	0.00
		Total	387.52	0.00
	19			

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≡ 文件 ∨ 囧 望	10000 - C	开始 摄入	支重命运员 公式	数据 审问	税图 开发工具	会员专家	福先资源 質給工具務	Q重	找命令、搜索模板			◎米同歩	各物作 凸分享	: ^
2 X 100 2 X 10			A* A' = = = ⊗- = = =		3 [1] #規 局中・自動換行 単・	% 090 50	- 5 E	- 12 单元		▲↓↓		田 (1/1/表・)	日本 田谷 あたこ	
Al	- @, <i>fx</i> En	ergy Node												_
A	В	C	D	E	F	G	н	1.1	1	K	L	M	N	- 12
1	00:00		01:00		02:00		03:00		04:00		05:00		06:00	1 5
2 Energy Node	Consumption (k)	· h Cost (Consumption (k	W . h Cost (Consumption (kW	· h Cost (Consumption(kW .)	Cost (Consumption(kW	· hlCost ('r	Consumption(k	· h Cost (Y Consumptio	
3 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	13
4 1	(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	0
5) 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	Ø
6	- 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	66
7 5	- 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	
8 N	- 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	0
9 %) 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	
10 M	- 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	
11 M	- 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	
12 M	- 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	
13 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	
14 M	- 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	
15	- 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	
16 0	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	
17 Ú	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	
18 Total	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	
19														
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□2 平均值=0 计数	R-3 1860-0									前中- 日	100%			+ 20

(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.

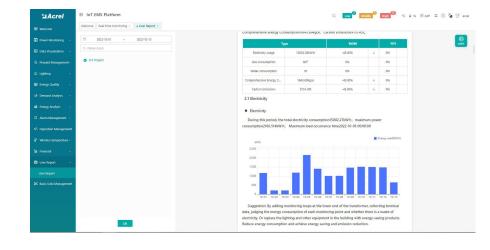
Macrel	IoT EMS Platform							Q	Low Midd	e ^O High ^O	c ès B	A00 11 ①	📲 😚 acret
	Welcome Real-time Monitoring × User Report ×	Electric P	arameter Report ×	Energy Report ×									
	IoT Project Change	Energy	Consumption	Comprehensive Energy	Consumption	Carbon Dicoide E	missions						
	Enter search content here	Energy i	Consumption: E	lectric	U Date:	Month 🗠 🗎	2022-10	0.1	Search < Chart	# Export			
	All Cascading			01		Day		03		04		05	
	RCOM001	•		Cost(S)	Consumption	Month	Consumption(k	Cost(\$)	Consumption(k	Cost(\$)	Consumption@c	Cost(\$)	Consumptio
	RCOM002				W-h)	Near 0.00	W-h)	0.00	W(b)	0.00	Web)	0.00	Web)
55 Demand Analysis 🗸	 1/F 2/F 		G/F RDOM001	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
	 □ 2/F > □ 3/F 		RDOM001		14		е. 27						
	> 🗆 4/F		Total	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
	5,4		Total.		2.10		1.71		1.01		4.17		1.12
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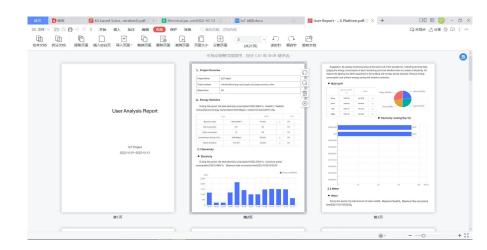
Main Function of WEB side System:

(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.

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	Project Name O	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.

13:23 😰 🖬 🛸		Di Mar Mar 7	7% 🗖
Q Gateway ID/Mete	r Type		
📮 Cabinet temperat	ure Online		
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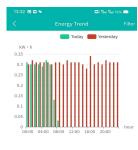
(1) Device List

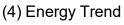
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<	Electrical p	ara…	Filter
Acquisition time	Ua(V)	Ub(V)	Uc(V)
00:00	220.9	220.6	221.4
00:05	221.4	220.8	221.5
00:10	221.9	221.7	222.1
00:15	221.6	221.2	222
00:20	222	221.5	221.9
00:25	221.5	221.2	221.8
00:30	221.9	221.3	221.6
00:35	220.6	220.4	220.9
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 🗊 🖬 🛸		🕮 🏭 🖏 76% 🚍
	-	
Device Status:Online		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		
1210.2800 11		
Phase voltage		2022-10-13 🔍
	-O- Ua -O-	Ub -O- Uc
v		

(2) History Curve





	2 🖬 🛸 💷) 🔠 🖬 16% 💶)		13:28 🗗 🖼 💊	
	Pc 8.88kW	Pb 8.4kW	Pa 8.56kW	
	Qb 3.28kVar	Qa 3.6kVar	p 25.92kW	
	PFa 0.92	Q 10.4kVar	Qc 3.52kVar	
	EQL 689.6kW • h	EPE 0kW・h	EPI 31994.4kW • h	
			EQC 0.8kW • h	
-	.0-12 -		Active power	
	O- Pc		kW 70	
		22:05 • P 10.2	40	
	anger.	• Pa 3. • Pb 3.2 • Pc 3.7	20 <mark>111 (18</mark> 11.) 10 8	
	:25	0 12:15 16:20	00:00 04:05 08	
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(2) History Curve

<	Data report	Fil
energy	comEnergy	CO2
Circuit name	17:00	
	Cost(¥)	Consumpt on(kW · h)
Z	0.00	0.80
ĩ	0.00	22.40
-2	50 0.00	38.40
	0.00	17.60
	0.00	18.40
Total	0.00	97.60

(5) Energy Report