# Acre

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# Renting Machine Online Energy Monitoring Solution

IoT based, Online APP/WEB Energy Monitoring, 4G Network, 1-phase&3-phase



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https://www.acrel-electric.fr/

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#### 0. Scenario Preset

- (1) There are 10 renting machines which are far from each other or are impossible for RS485 wiring.
- (2) Each machine was powered by 1 main circuit 3-phase that needed to be monitored online.
- (3) Each circuit are with rated voltage of 3x400Vac L-L&3x230Vac L-N, and with rated current of
- 150A AC. All machines are using the typical 3P4W [3-phase 4-wire] power system.
- (4) Circuits' current are carried by cable, of which the size was suitable for 24mm aperture.

(diameter).

(5) For each machine's 3-phase monitoring circuit, we will install 1\* ADW300-4GHW/C Wireless 4G 3

-phase Energy Meter paired with 3\* AKH-0.66/K K- 24 150/5 for current input.

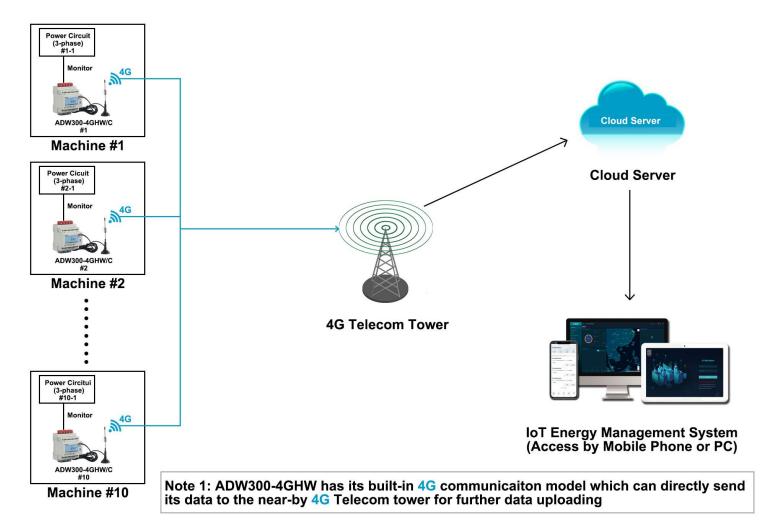
#### 1. Devices Deployment Plan

#### Machine #1 - Power Circuit #1-1:

- 1\* ADW300-4GHW/C Wireless 4G Energy Meter [For monitoring the power circuit of Machine #1]
- 3\* AKH-0.66/K K- 24 150/5 Split-core Current Transformer [paired with energy meter for current input]

#### Machine #10 - Power Circuit #10-1:

- 1\* ADW300-4GHW/C Wireless 4G Energy Meter [For monitoring the power circuit of Machine #10]
- 3\* AKH-0.66/K K- 24 150/5 Split-core Current Transformer [paired with energy meter for current input]





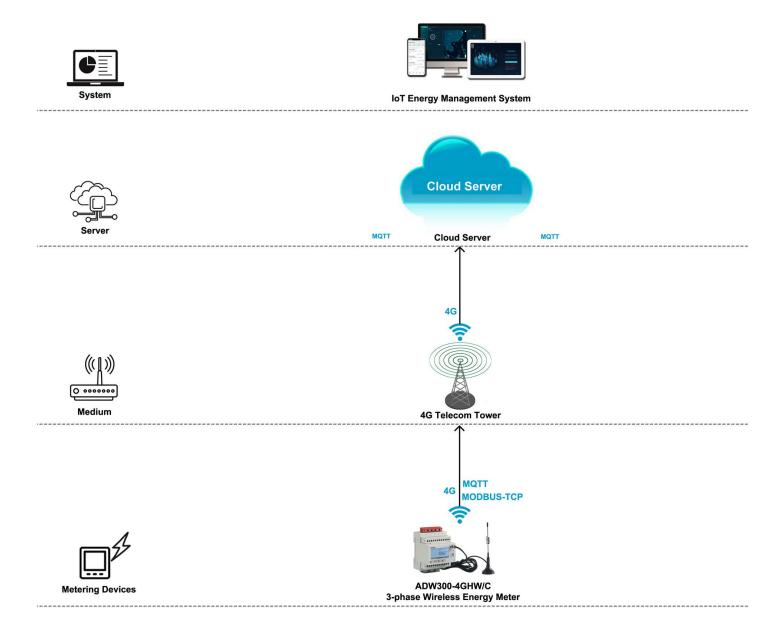
#### 2. Communication Structure&Logic

(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: 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





#### 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 ce or Buy-out Service after 3- al of <b>Cloud IoT System</b> )
		been sent to cloud	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 pro	ojtect)	3-m	onth Free Trail ed to rent a cloud server))
		3.Provide IoT APP 4.Generate energy	for <b>mobile phone</b> side and <b>IoT WEB</b> for <b>PC</b> side. data report of daily, monthly and annually -yeav and period-on-period energy analysis.	\$140/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	ment System	of the system and p	arm function to ensure a stable operation rotect your property. a trial of system with full technical support or pilot project.	\$8000/Permanent (Limitless (Price for Buy-out Serv Only,recommended in late p	Points) ice	1-time charging of permanent use (Sup	\$8000 for Buy-out Service of port OEM and a cloud server be rent by users)
			Cloud Server				
Name			Description	Server Renting Price (For Reference Only			Remark
		1.Cloud Server cou Cloud.	ld be rent on the cloud server provider like Amazon	(,	,		
Cloud Server Cloud Server		rent cloud server wi System. And if the of our Cloud IoT Sy been rent on Amazo	Tenergy Management System only need to hen they choose buy-out service of our Cloud IoT y are using hosting service or 3-month free trial 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 monito (Serv	rver specs could support ings points connected to the system er: 8 core 16G m: windows server 2016)
		I	4G Wireless Energy Mete	er			
Overview Picture	USAGE&MO	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB UN	NIT PRICE (USD)	AMOUNT (USD)
		less Energy Meter -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		I	I
			Paired Split-core CT				
Overview Picture	USAGE&MO	DULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB UN	NIT PRICE (USD)	AMOUNT (USD)
		ent Trasnformer δ/ <b>Κ Κ-φ24</b>	Current Ratio: 150A/5A AC Aperture: φ24mm (diameter) Accuracy: Class 1.0	30pcs		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



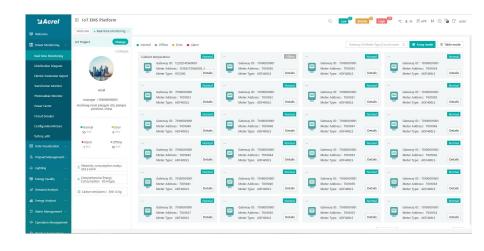
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Log	gin
No account yet? C	lick on the register



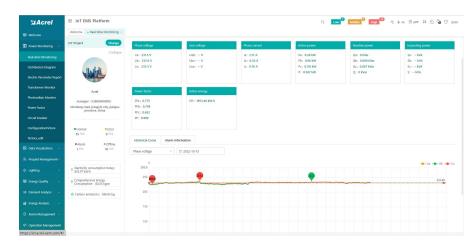
Main Function of WEB side System:

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

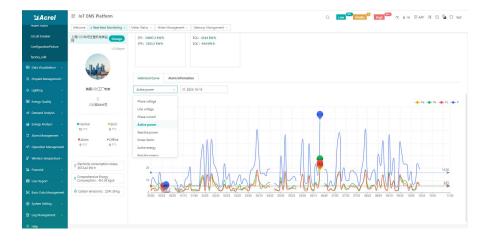
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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

SAcrel	I IoT EMS Platform													α.	Low	Visite	Hgh - e	e-3	BI APP	: U :	ងបេ:	
	Welcome  Real-time Monitoring  Bectric Parameter Re	sport +																				
	MS Project Change	Site B			III 2023	-10-25		> Ph	une voltag		C) Search	Ф Бара	rt									
		Acquisit on time	Select	Parameter	5			_				×	P5(aW)									
	Site B	00:00		Check All												-			-		-	
	Site A	00.05		Phase voltage	E Ph	se current	Active p	ower a	Reactive p	ower 1	Active energ	o'										
		00:10				UNB LICUL	Carlo and	and the second se														
		00.15									Ok	Cancel	-									
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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	× 6.5	SE APP	# @ E	a 17 acre
B Welcome	Welcome Real-time Monitoring - Electric Par	ameter Repo	at -																
Power Manitoring	IoT Project Change	<	CE 2022-10	-13		> Phase	voltag_		Q Search	# Export									
Real-time Monitoring	Enter search content here		Pa(kW)	Pb(kW)	Pc(kW)	P(kW)	Qa(kVar)	Qb(kVar)	Qc(kVar)	Q(kVar)	Se(kVA)	S5-DKVA)	Sc(kVA)	SIKVAJ	Pfa	РГЬ	PFc	FF	EPI(kW-
Distribution Diagram	* G/F	4	11.04	0	8.82	28.86	-9.54	-6.12	-7.2	22.86	14.58	10.92	11.45	35.95					139425
Liectric Parameter Report	RDOM001	08	10.02	8.82	8.64	27,48	-7.8	-6.18	-7.02	21	13.26	10.8	11.16	35.22					139427
	ROOM002	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
	> 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
	> 3/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					139434.5
Circuit breaker	> 4/F	14	10.38	9.18	8.64	28.2	-7,44	-6.42	-6.9	20.76	13.5	11.22	13.1	35.82				~	139436
Citcur breakin	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
ConfigurationFicture	12203162030001_12203162030001_1	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					139441
	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
Data Visualization	232 70100001001 T001002	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					139445
	70100001001_001003	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
& Propaid Management ~	70100001001_001004	56	13.56	11.4	11.82	36.78	3.36	-4.8	-6.36	14.52		12.36	13.44	41.28					139450
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Energy Quality ~	70100001001_1001005	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					139453
s crangy quarry	70100001001 T001007	64	9.42	8.28	8.34	26.04	-8.28	-5.88	-6.96	21.12	12.54	10.14	10.85	33.54					139455
	70100001001 7001008	86	9.36	8.16	8.28	25.8	-8.28	-5.82	-6.96	21.06	12.48	10.02	10.8	33.3	~				139457
Energy Analysis 🗸 🗸	70100001001_T001009	14	10.02	8.22	8.22	26.46	-8.28	-5.88	-6.84	21	12.96	10.08	10.68	33.72			~	-	139460
	70100001001_T001010	08	9.66	8.28	8.16	26.1	-8.34	-5.94	-6.95	21.24	12.78	10.2	10.68	33.66		-			139462
	70100001001_T001011	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					139464
	70100001001_T001012							_											
	70100001001 T001013													Tota	1291 15	0/page	< 1	2 >	Go to 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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00:05	225.6	225.4	227.3				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	35.22			
00:10		224.2					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				
00:15		224.2									8.76	8.76	27.66			-7.02	20.82	13.2	10.68	11.28				
00:20	225.4	225.6	227.1				56.1	47.04	47.76	9.54	8.64	8.34	26.52	-8.28	-6.06	-6.6	20.94	12.6	10.56	10.86	34.02			
00:25		224.7					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			
00:30		225.7	227.5				58.08	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			
00:35	226.2		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				
00:40		226.2					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	10.98	34.8			
1 00:45		226.9							51.24		9.54	9.3	28.44	-8.34	-6.12	-6.12	20.58	12.72	11.4	11.64	35.76			
2 00:50	228.1	228.5	229.9				57	46.2	47.46	9.78	8.58	8.4	26.76		-6.06	-6.9	21.42	12.96	10.5	10.92	34.38			
3 00:55		228.8					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			
4 01:00	228.5	228.8					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			
5 01:05	227.7	228	229.2				55.32	44.7	47.66	9.42	8.28	8.34	26.04	-8.28	-5.88	-6.96	21.12	12.54	10.14	10.86	33.54			
5 01:10	230		231.8				54.54	43.68	46.86	9.36	8.16	8.28	25.8	-8.28	-5.82	-6.96	21.06	12.48	10.02	10.8	33.3			
7 01:15		231.1								10.02	8.22	8.22	26.46	-8.28	-5.88	-6.84	21	12.96	10.08	10.68	33.72			
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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			
0 01:30	231.4	231.2	233.1				53.28	43.14	46.32	9.24	8.16	8.34	25.74	-8.1	-5.64	-6.78	20.52	12.3	9.96	10.74	33			
1 01:35	229.9	229.8	231.3				53.16	43.5	46.8	9.06	8.16	8.28	25.5	-8.16	-5.7	-6.9	20.76	12.18	9.96	10.8	32.94			
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			
3 01:45	229.8	229.5	231.1				51.36	42.6	45.06	8.7	7.92	7.92	24.54	-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				58.32	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			
5 01:55		230.2					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			
6 02:00	229. 2	228.8					53. 58	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			
7 02:05	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			
8 02:10	230.7	230.4	232.6				52.32	46.68	43.65	10.26	8.94	7.8	27	6.3	5.88	6.42	18.6	12.06	10.74	10.14	32.94			*
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# 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

E IoT EMS Platform

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

Welcome		e Real-time Monitoring	Energy Report												
Power Monitoring ~			Change	Energy	Consumption Con	prehensive Ener	gy Consumption	Carbon Dioxide E	missions						
Data Visualization 🖂	Enter	search content here		Energy	lorsumption: Elect	ric	Date: D	ay 🖉 🖂	2022-10-09	Q Se	arch < Chart	@ Export			
Prepaid Management ~		Cascadino				00:00		01:00		02:00		03:00		94:00	
Lighting ~		101		•			Consumption(k W/b)		Consumption(k W-h)		Consumption(k		Consumption(k W-h)		Consump W/b)
Energy Quality 🗸 🗸		10 0 1				0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32
Demand Analysis 🛛 🗸		0				0.00	31.20	0.00	19.20	0.00	36.00	0.00	15.20	0.00	22.40
Energy Analysis 🔷		0C 1				0.00	46.40	0.00	30.40	0.00	44.80	0.00	28.00	0.00	39.20
Energy Overview		x			1	000	8.00	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9.60
NoY Analysis		y			7	0.00	12.00	0.00	11.20	0.00	12.00	0.00	11,20	0.00	11.20
MoM Analysis		x				0.00	39.20	0.00	39.20	0.00	40.80	0.00	32.90	0.00	47.20
Energy Trend		×				0.00	29.60	0.00	29.60	0.00	29.60	0.00	32.00	0.00	12.80
Energy Report		0			1	0.00	17.60	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80
Collecting Report		30				0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40
Multiple Rate Report		00				0.00	24.90	0.00	21.60	0.00	20.80	0.00	21.00	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
Energy Flow						0.00	42,40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40
ulogy now					. A.	A.85	22.00		5.1.10		54.10		11.45		11.10

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

									_						
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	SENI - NECOSI		• <u>△</u> • <u>△</u> •	A* A* = = = & = ± ± ±		田 [司] #現 #展中・自动純行 羊・1	≤ 000 +0	**************************************	- ₩ ### - ₩ #元!		A↓ ↓ №/8 - 1875	· 曲元楷· 行和列·	₽ 1作表・ 3	日泉 目 京は国格・ 本格	сд. )
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	er Node	Consumption(kW				Y Consumption (kW •									13
			0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.32	0.00	0.30	1.7
			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	
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	6
			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 M		- 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 M		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	1.1		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 M		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	
		- 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	
		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	
		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 Tota	1	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.

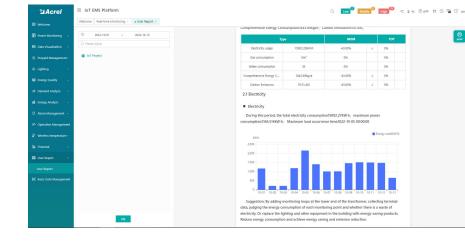
Sa Acrel	≡ IoT EMS Platform							Q	Low Middl	le High	😊 -c è-s 🛙	APP 12 ①	🖫 🐨 acrai
III Welcome	Welcome Real-time Monitoring × User Report ×	Electric F	arameter Report >	Energy Report									
🚺 Power Monitoring 🗠	IoT Project Change	Energy	Consumption Co	mprehensive Ener	gy Consumption	Carbon Dicoide	Emissions						
🖽 Data Visualization 🖂	Enter search content here	Energy i	Consumption: Ele	ctric	U Date:	Month ^	2022-10	0	Search < Chart	& Export			
A Prepaid Management∽	All 🖸 Cascading			01		Day		03		04		os	
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🐻 Energy Quality 🖂	RCOM002					Year	1.000				Sec. 6		WA)
56 Demand Analysis ~	* 🗌 1/F		G/F	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
S# Demand Addaysis ·	<ul> <li>2/F</li> <li>3/F</li> </ul>		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	2203162030001_12203162030001_1												
	n												
Energy Trend	232												
Energy Report	70100001001_T001002												
Collecting Report	70100001001_T001003												
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	70100001001_T001005												
Energy Rank	70100001001_7001006												
Loss Analysis	70100001001_T001007 70100001001_T001008												
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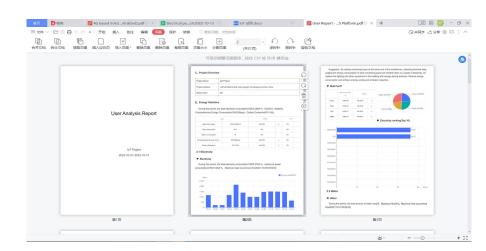
Main Function of WEB side System:

(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.

SAcrel	Ξ IoT EMS Platform	Q 🚺 🚾 Made 📍 High 🗫 🕫 & 🖗 🖓 🖓 🖓 test
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Data Visualization	Project Name Q	■ Report Template A Save
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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 🛙 🖬 🛸	🖽 🖏 🖏 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	>
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Conine)	
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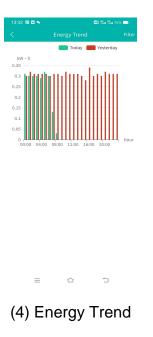
(1) Device List

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 Xa 76% 📼	
Device Status:Online	2	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 🔍	
	- <b>O</b> - Ua - <b>O</b> -	Ub -O- Uc	
V			

(2) History Curve





(2) History Curve

13:34 🖬 🖼 💊		🖽 Sar Sar 74% 💶
energy	comEnergy	CO2
Circuit name	17:00	
	Cost(¥)	Consumpti on(kW · h)
z	0.00	0.80
)— 1	- 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