



ECNOLOGY

Empowering Efficiency, Energizing Savings...

TEST REPORT

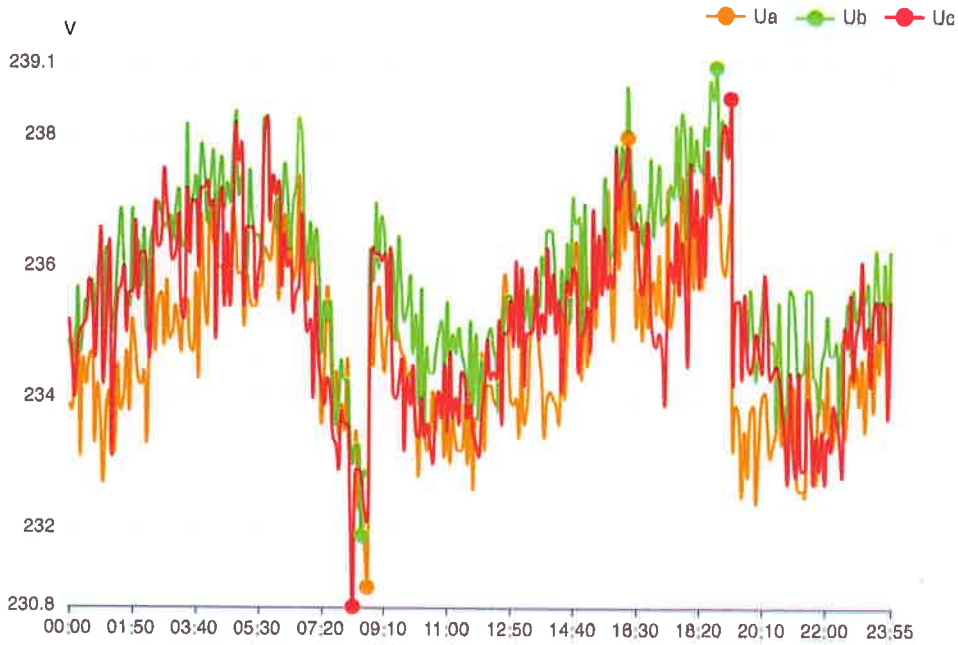


Al Samary Supermarket
Samari Residence Ras Al Khor - 299 Street 1

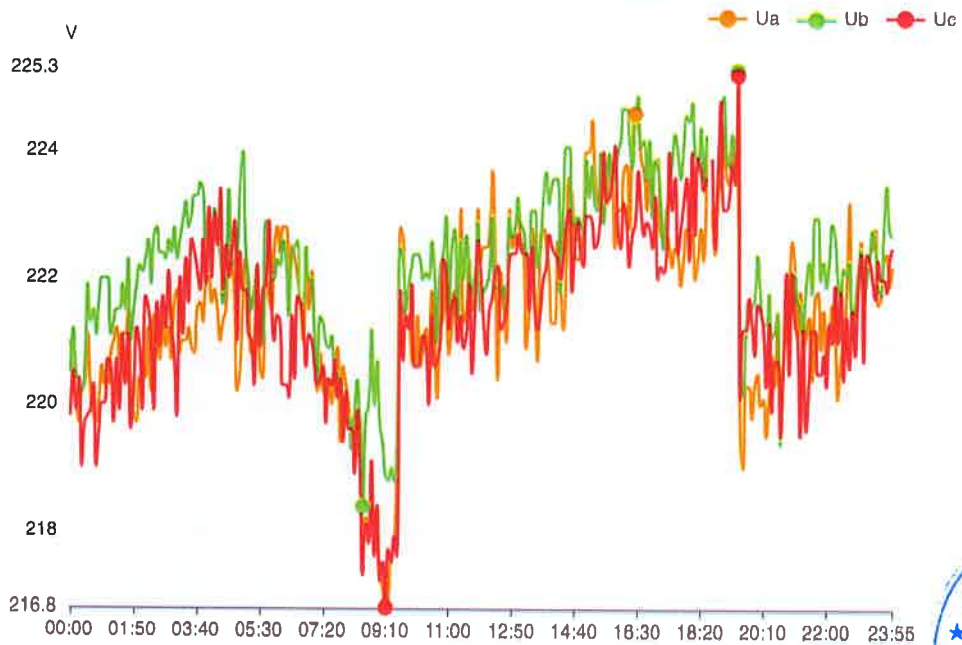


PHASE VOLTAGE

10/12/2023

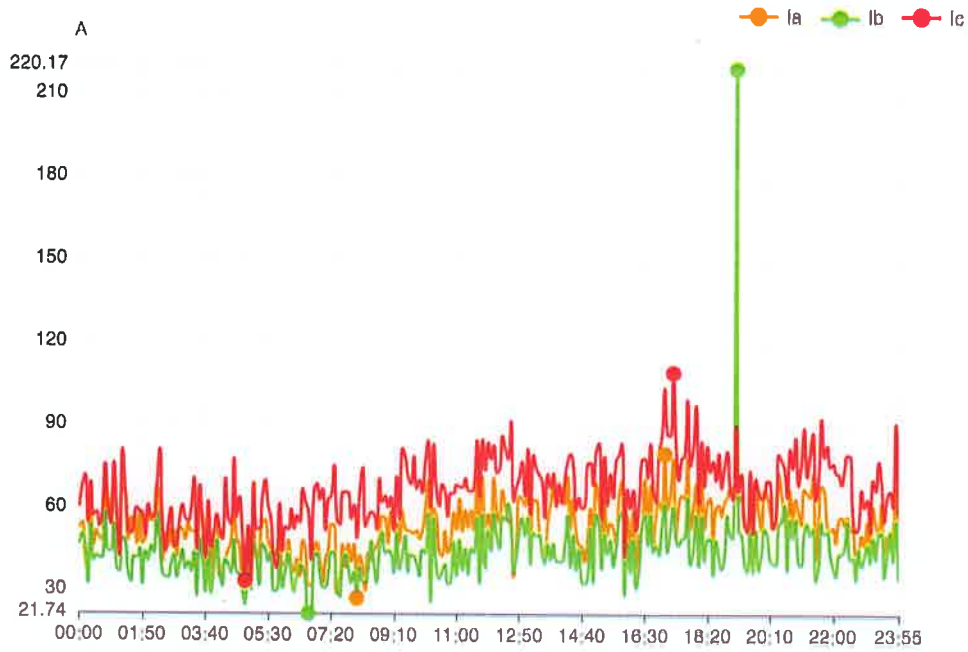


17/12/2023

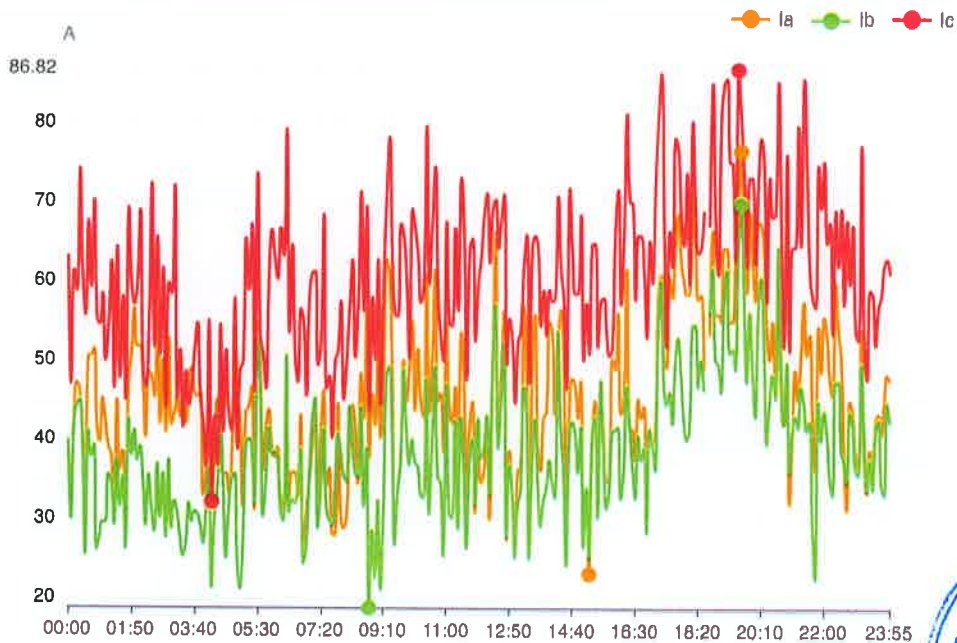


PHASE CURRENT

10/12/2023

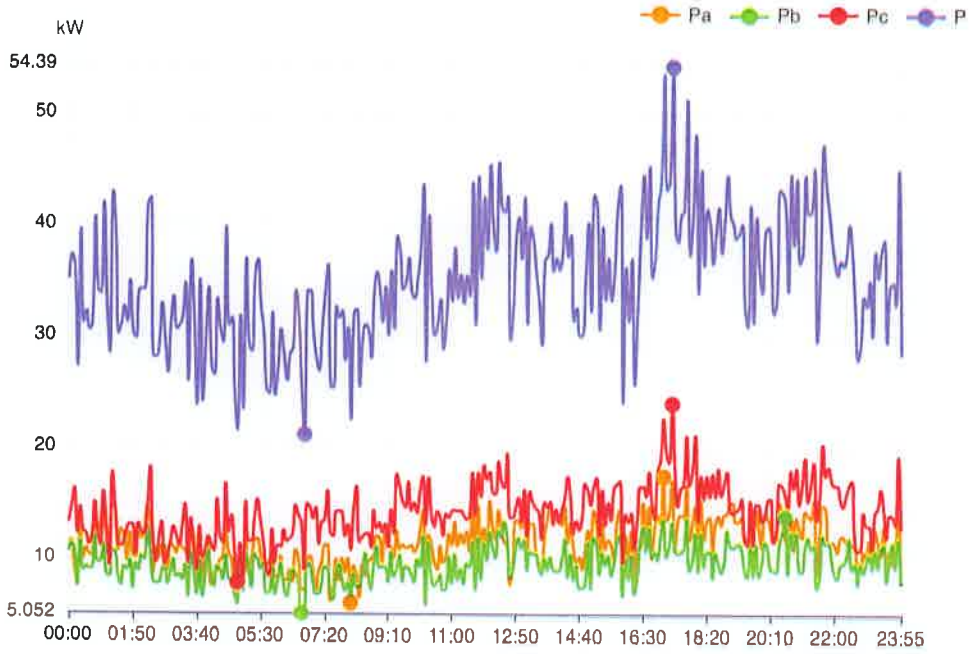


17/12/2023

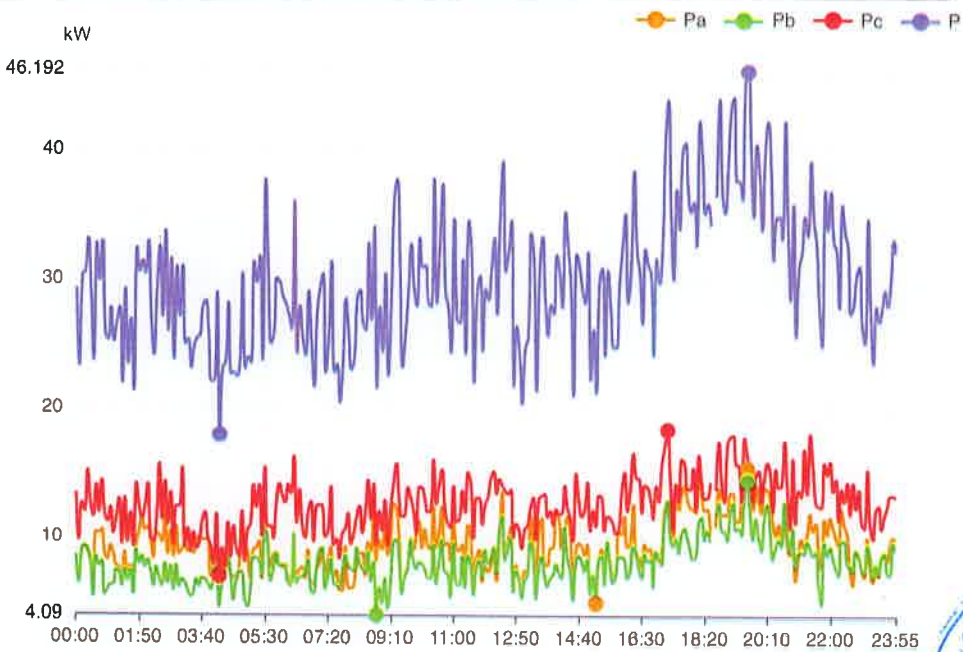


ACTIVE POWER

10/12/2023

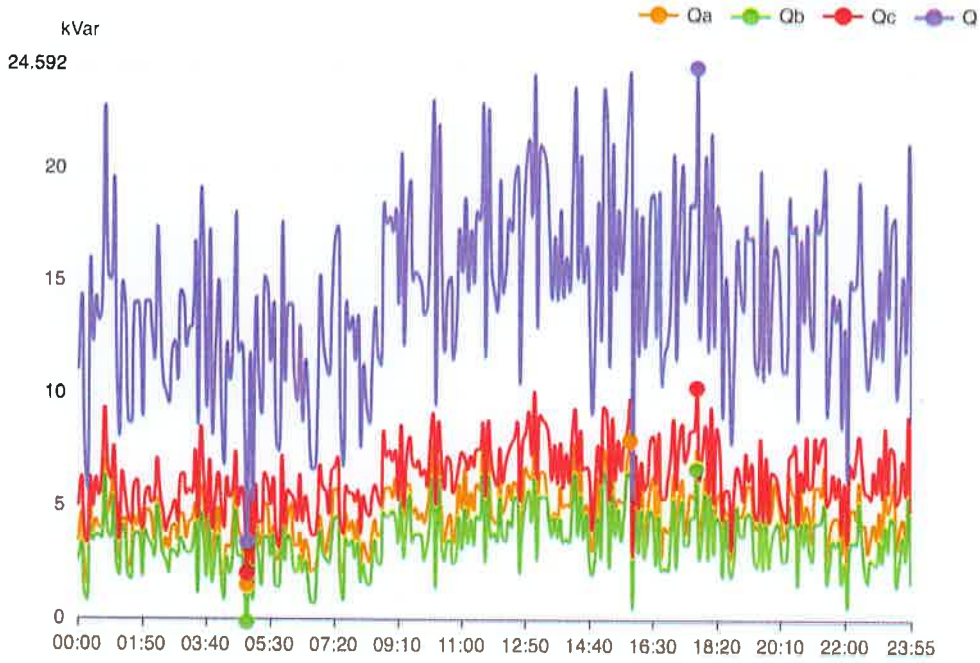


17/12/2023

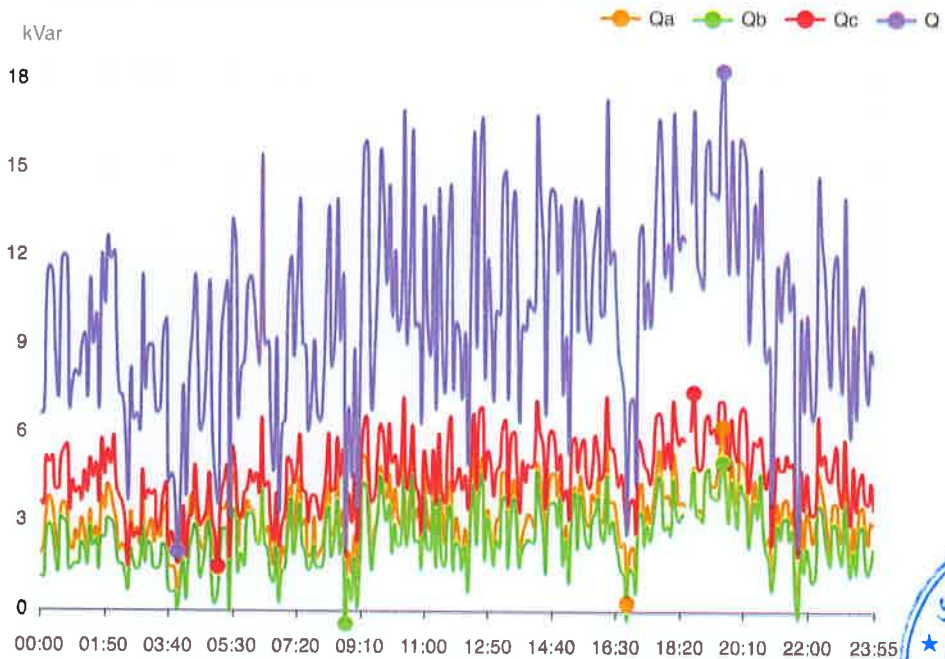


REACTIVE POWER

10/12/2023



17/12/2023



TEST REPORT

Energy used				
Time 00.00-00.00	EP(kW·h)			
17-Dec	716.8			
10-Dec	843.8			
Diference	-127			
%	-15.05			
Reactive power	Average			
Time 00.00-00.00	Qa (kVar)	Qb (kVar)	Qc (kVar)	Q (kVar)
17-Dec	3.11	2.43	4.53	10.06
10-Dec	4.58	3.54	6.29	14.41
Diference	-1.47	-1.11	-1.76	-4.35
%	-32.10	-31.36	-27.98	-30.19
Active power	Average			
Time 00.00-00.00	Pa (kW)	Pb (kW)	Pc (kW)	P (kW)
17-Dec	9.15	7.97	12.18	29.31
10-Dec	11.38	9.56	14.18	35.12
Diference	-2.23046	-1.5862	-1.99703	-5.8127
%	-19.60	-16.59	-14.08	-16.55
Load, Volt	Average			
Time 00.00-00.00	Ua (V)	Ub (V)	Uc (V)	
17-Dec	221.53	222.28	221.43	
10-Dec	234.78	235.92	235.22	
Diference	-13.252	-13.6428	-13.7881	
%	-5.64	-5.78	-5.86	

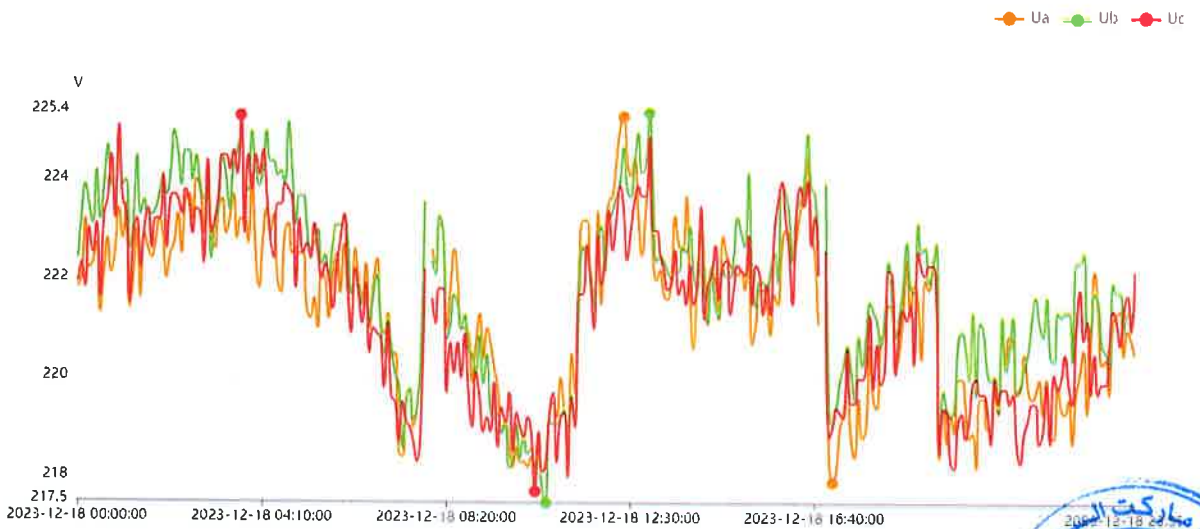


PHASE VOLTAGE

11/12/2023

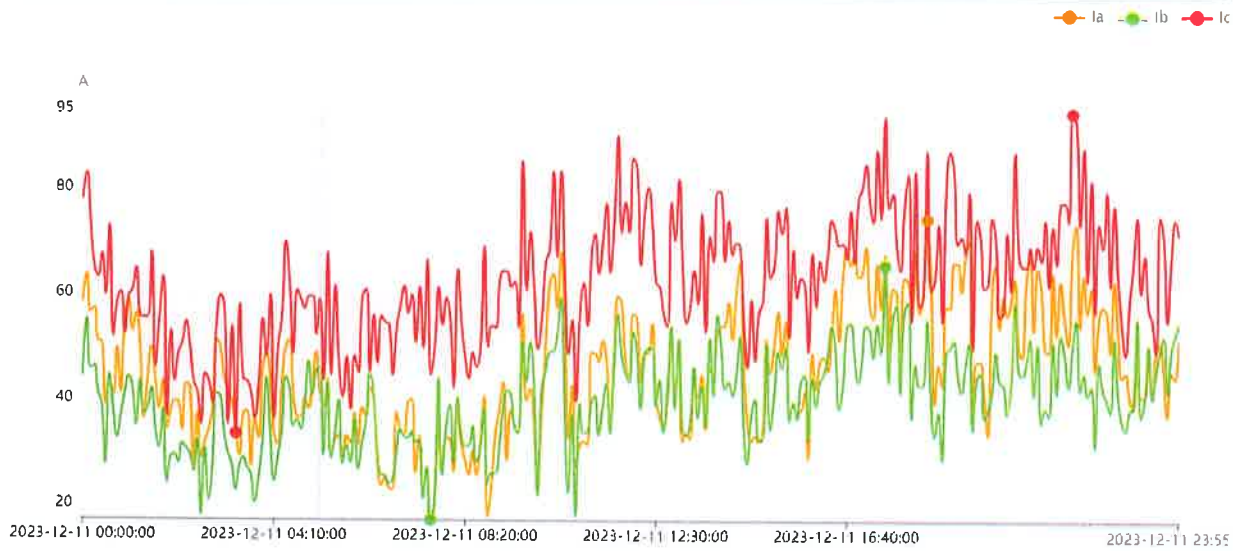


18/12/2023

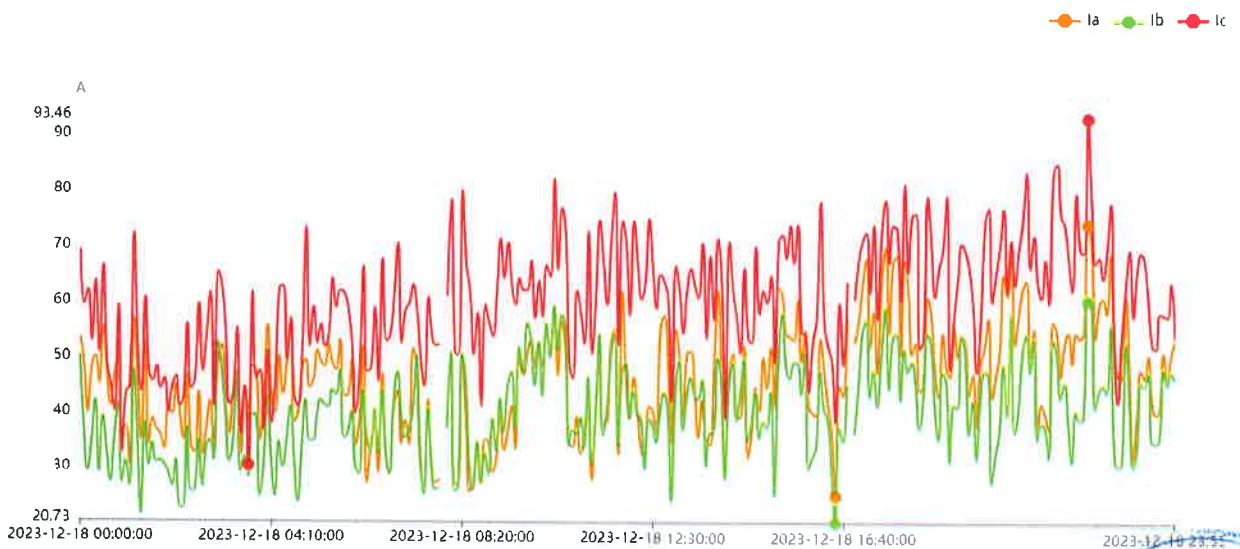


PHASE CURRENT

11/12/2023

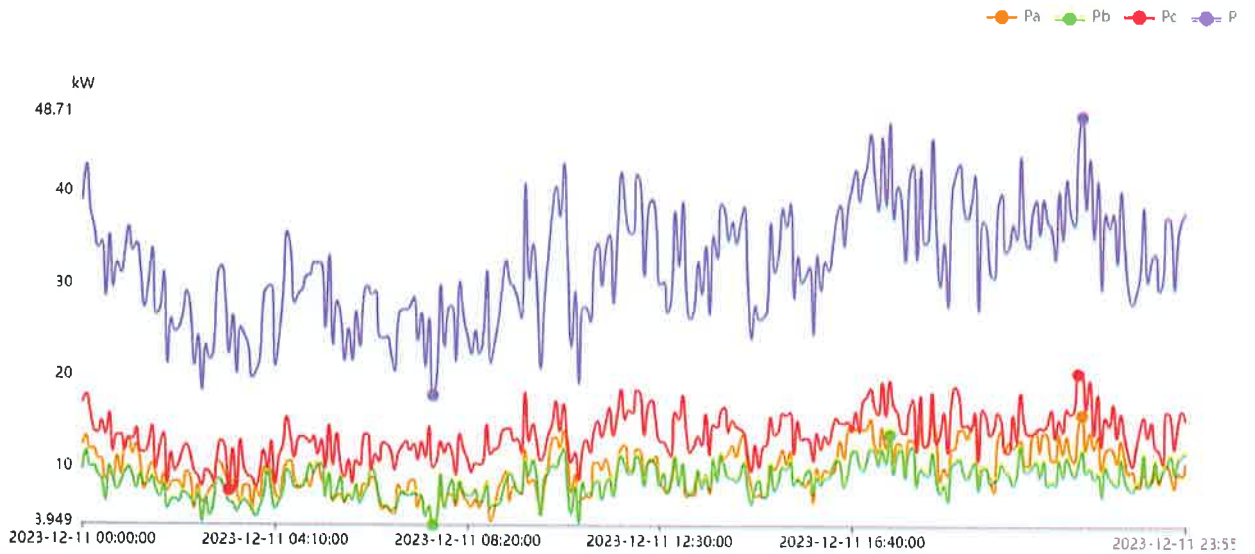


18/12/2023

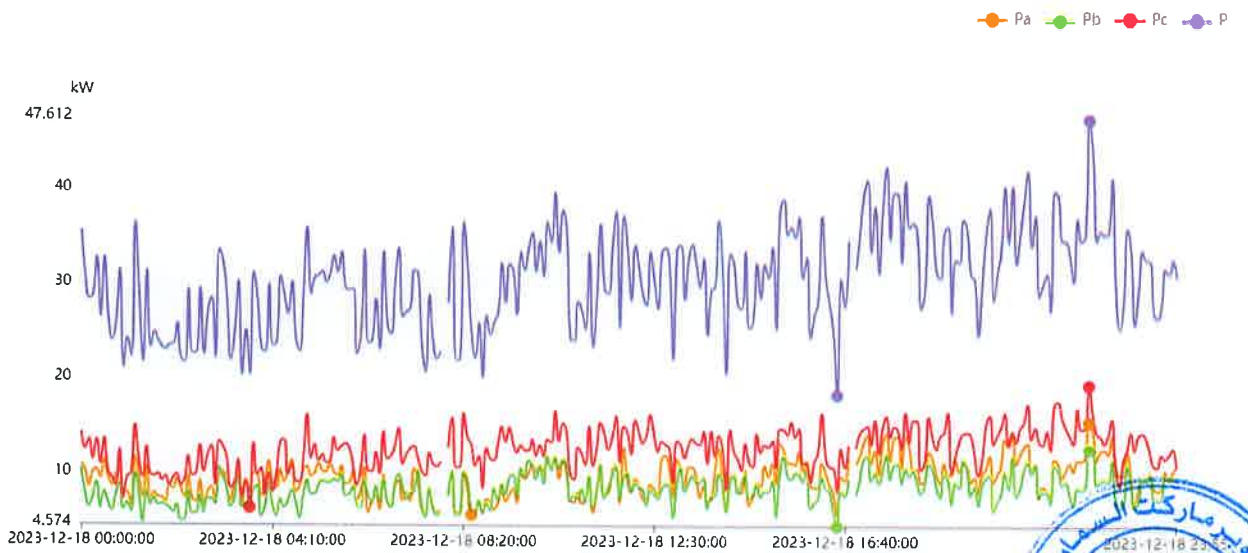


ACTIVE POWER

11/12/2023

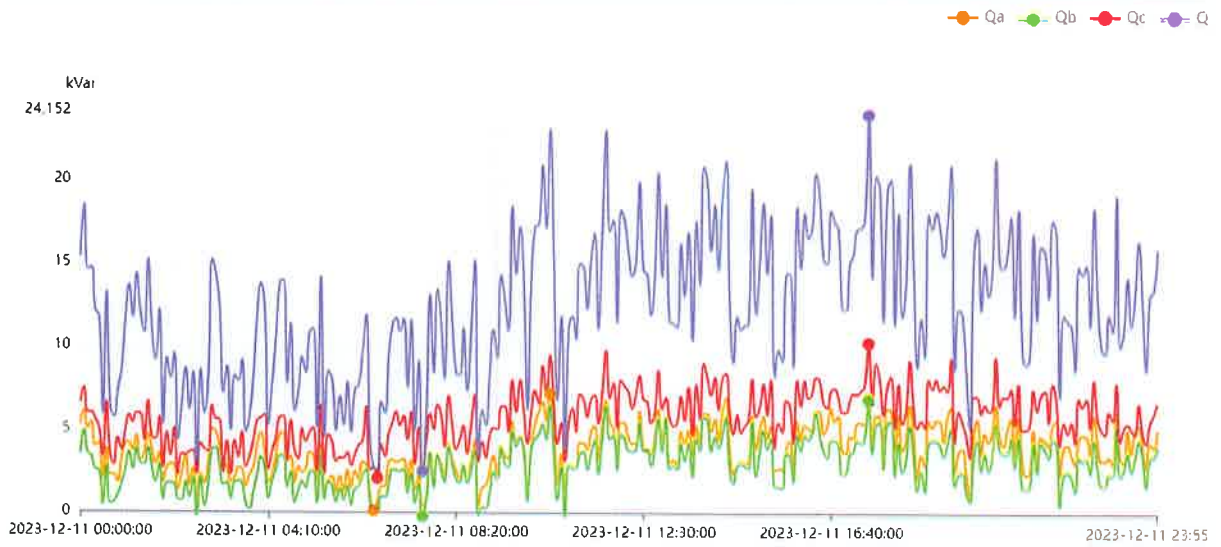


18/12/2023

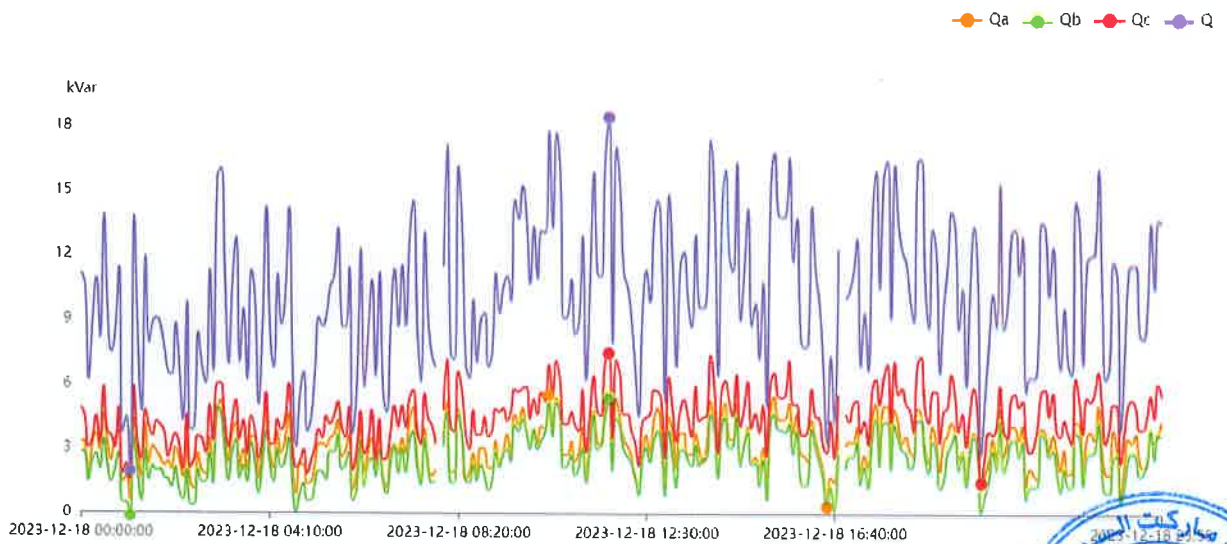


REACTIVE POWER

11/12/2023



18/12/2023



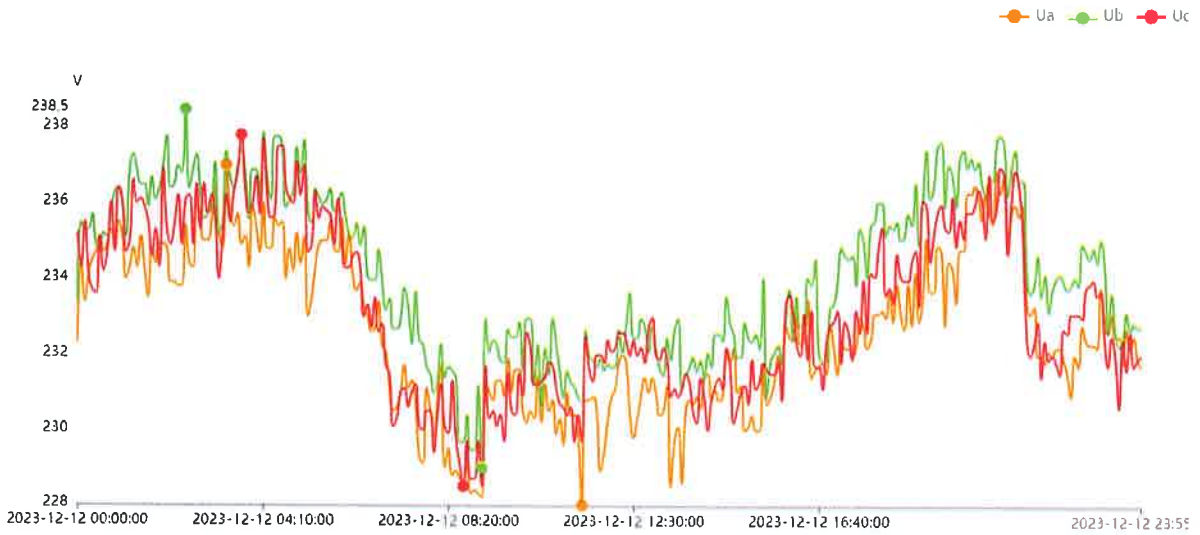
TEST REPORT

Energy used				
Time 00.00-00.00	EP(kW·h)			
18-Dec	729.2			
11-Dec	776.8			
Diference	-47.6			
%	-6.13			
Reactive power	Average			
Time 00.00-00.00	Qa (kVar)	Qb (kVar)	Qc (kVar)	Q (kVar)
18-Dec	3.16	2.59	4.5	10.24
11-Dec	3.81	3	5.73	12.54
Diference	-0.65	-0.41	-1.23	-2.3
%	-17.06	-13.67	-21.47	-18.34
Active power	Average			
Time 00.00-00.00	Pa (kW)	Pb (kW)	Pc (kW)	P (kW)
18-Dec	9.48	8.50	12.50	30.48
11-Dec	9.81	8.88	13.56	32.25
Diference	-0.33	-0.38	-1.06	-1.77
%	-3.37	-4.29	-7.79	-5.48
Load, Volt	Average			
Time 00.00-00.00	Ua (V)	Ub (V)	Uc (V)	
18-Dec	221.36	221.97	221.41	
11-Dec	235.62	236.30	235.55	
Diference	-14.2541	-14.3277	-14.1413	
%	-6.05	-6.06	-6.00	-6.04

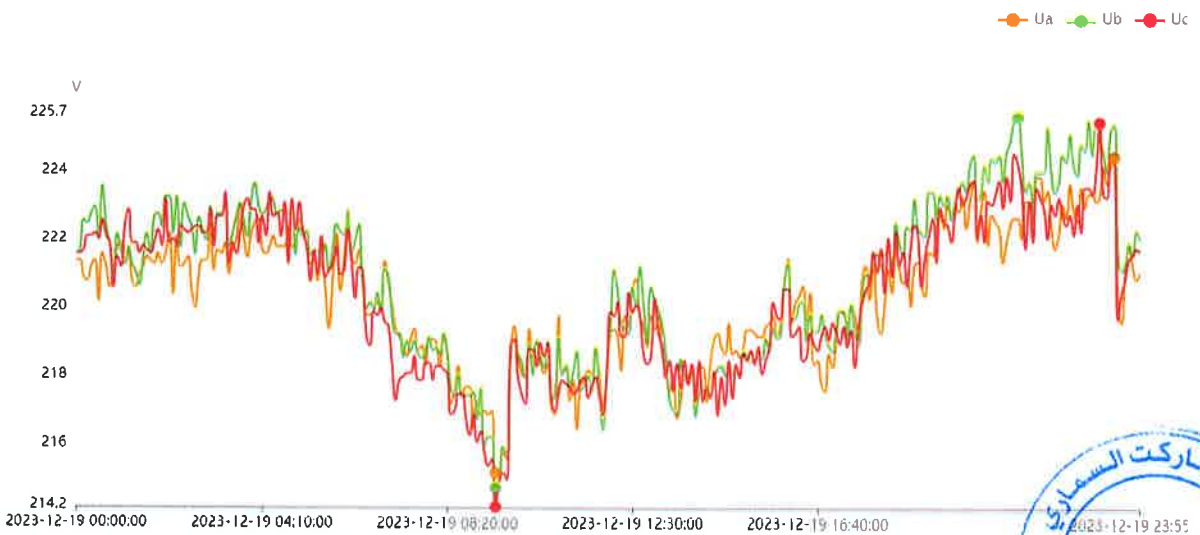


PHASE VOLTAGE

12/12/2023

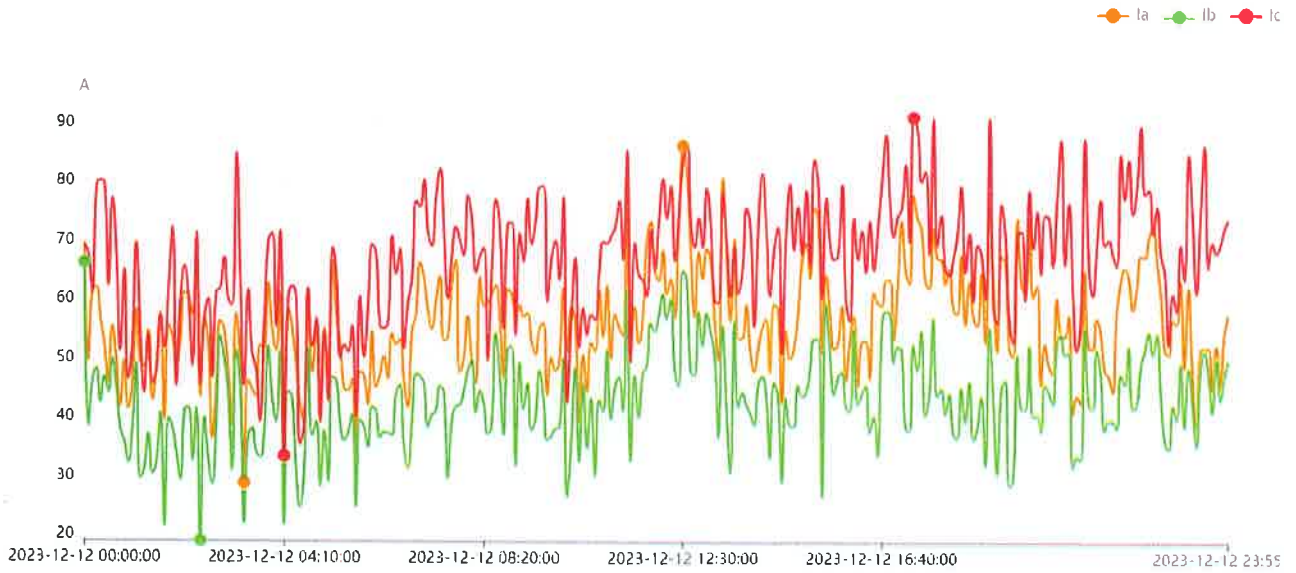


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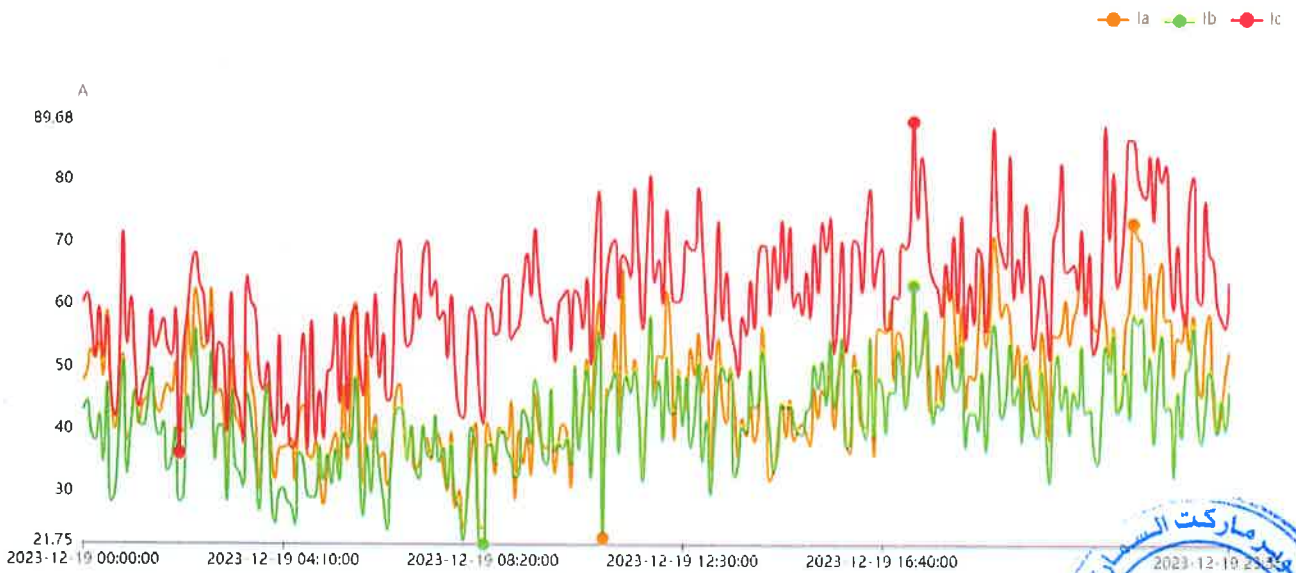


PHASE CURRENT

12/12/2023

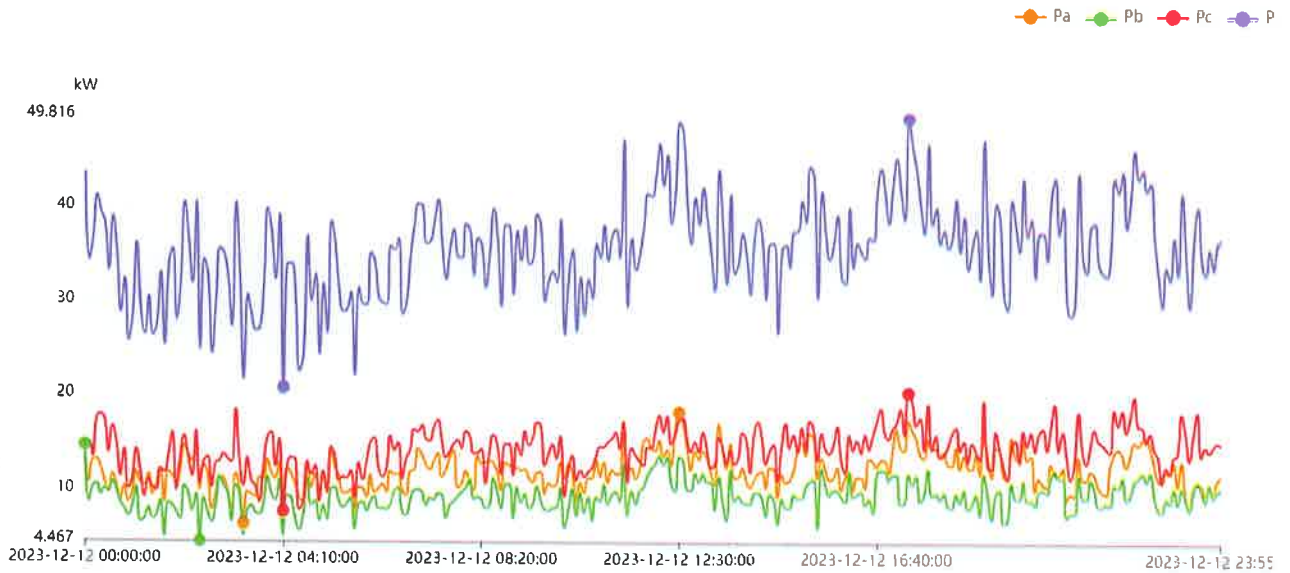


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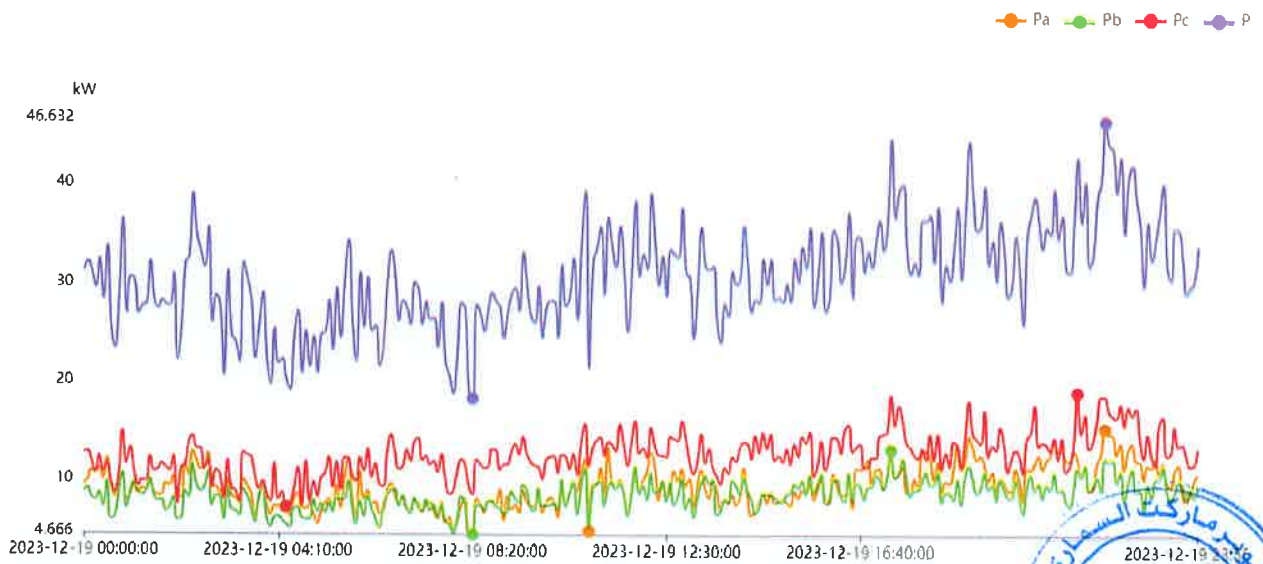


ACTIVE POWER

12/12/2023

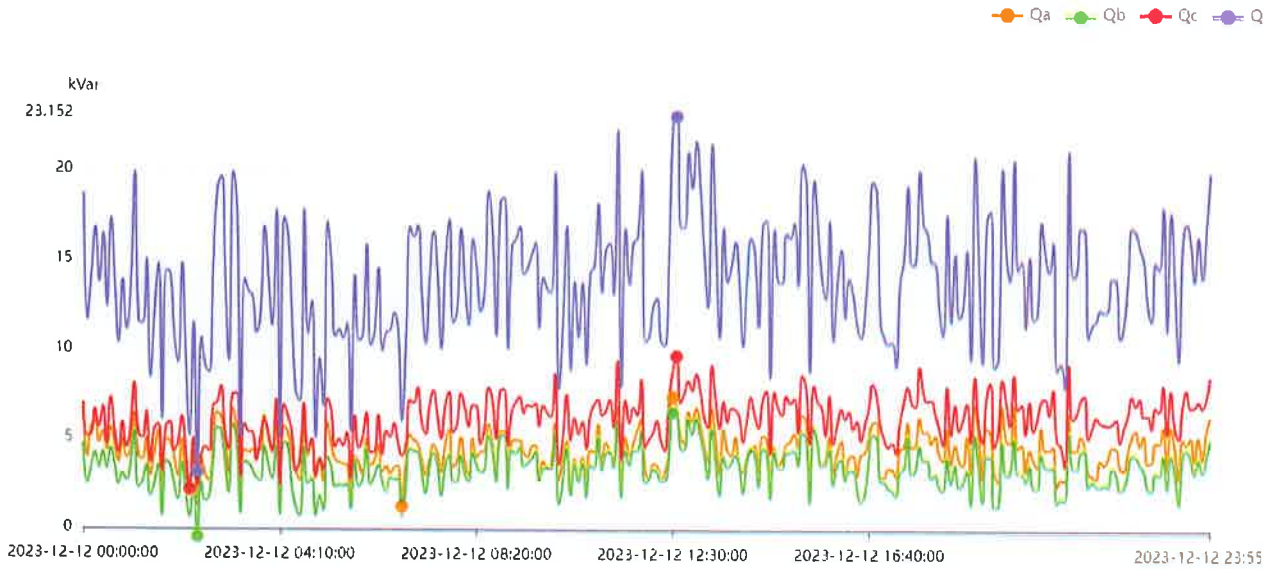


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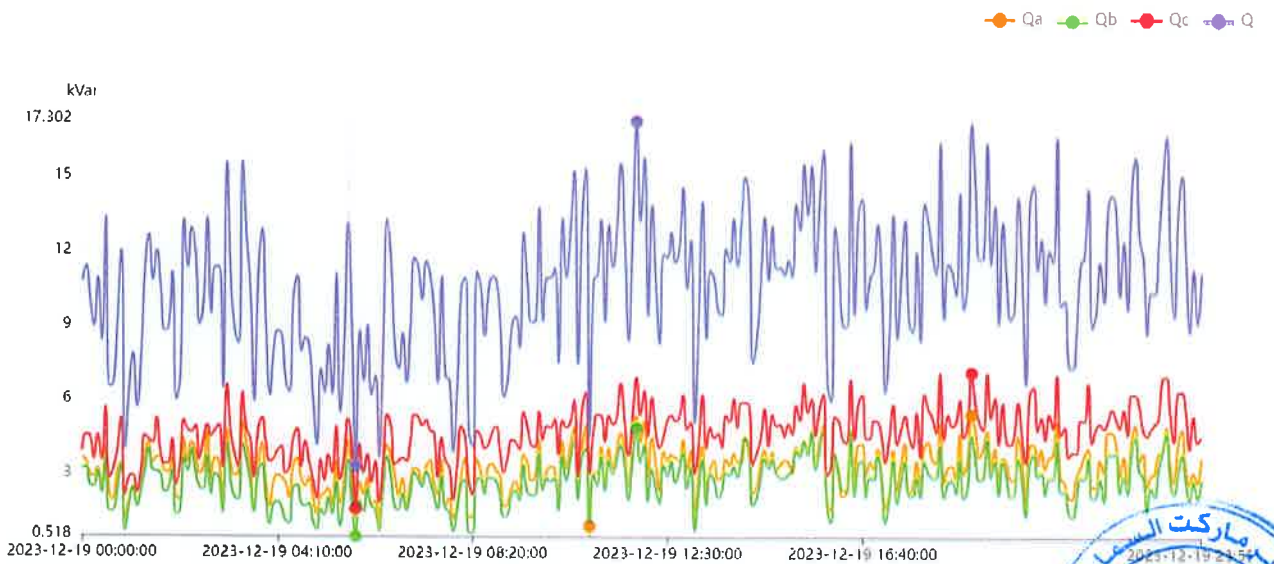


REACTIVE POWER

12/12/2023



19/12/2023



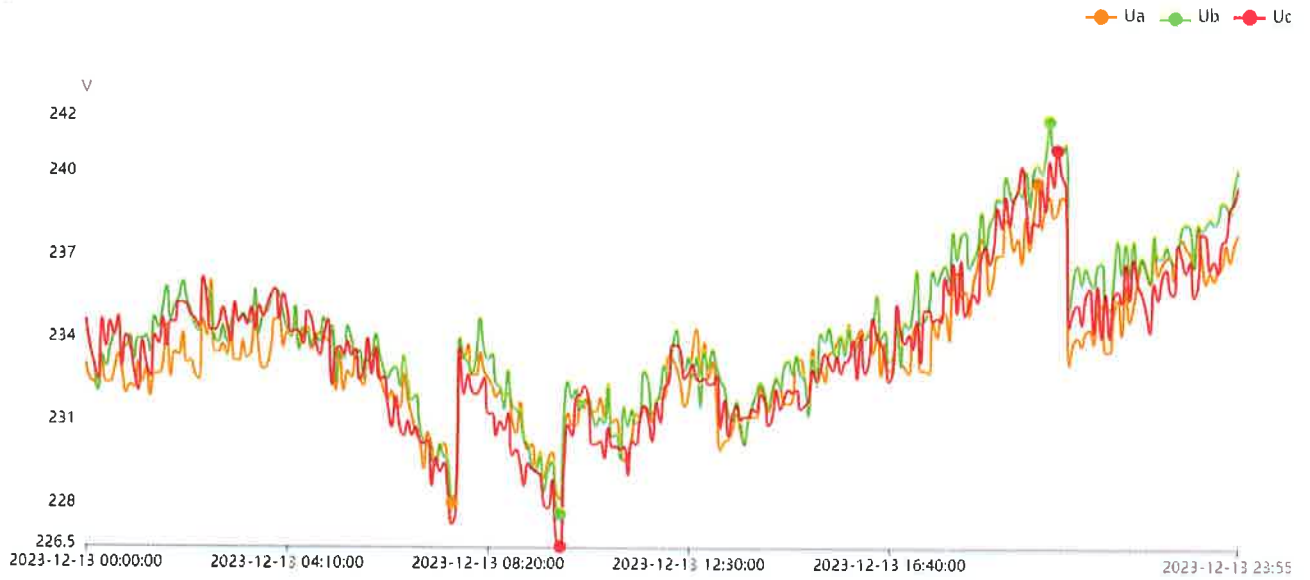
TEST REPORT

Energy used				
Time 00.00-00.00	EP(kW·h)			
19-Dec	743.1			
12-Dec	851			
Diference	-107.9			
%	-12.68			
Reactive power	Average			
Time 00.00-00.00	Qa (kVar)	Qb (kVar)	Qc (kVar)	Q (kVar)
19-Dec	3.25	2.75	4.66	10.66
12-Dec	4.36	3.43	6.15	13.93
Diference	-1.11	-0.68	-1.49	-3.27
%	-25.46	-19.83	-24.23	-23.47
Active power	Average			
Time 00.00-00.00	Pa (kW)	Pb (kW)	Pc (kW)	P (kW)
19-Dec	9.51	8.74	12.64	30.89
12-Dec	12.04	9.44	14.30	35.79
Diference	-2.53	-0.70	-1.66	-4.90
%	-21.01	-7.42	-11.61	-13.69
Load, Volt	Average			
Time 00.00-00.00	Ua (V)	Ub (V)	Uc (V)	
19-Dec	220.37	220.93	220.42	
12-Dec	232.64	234.20	233.21	
Diference	-12.2691	-13.2667	-12.7868	
%	-5.27	-5.66	-5.48	-5.47

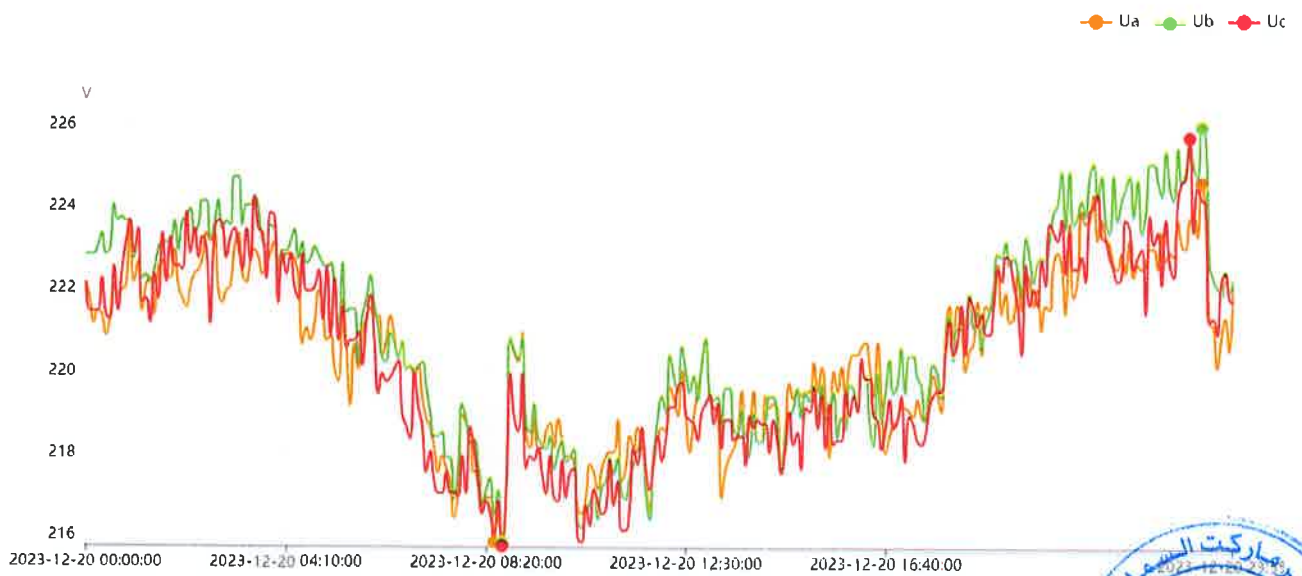


PHASE VOLTAGE

13/12/2023

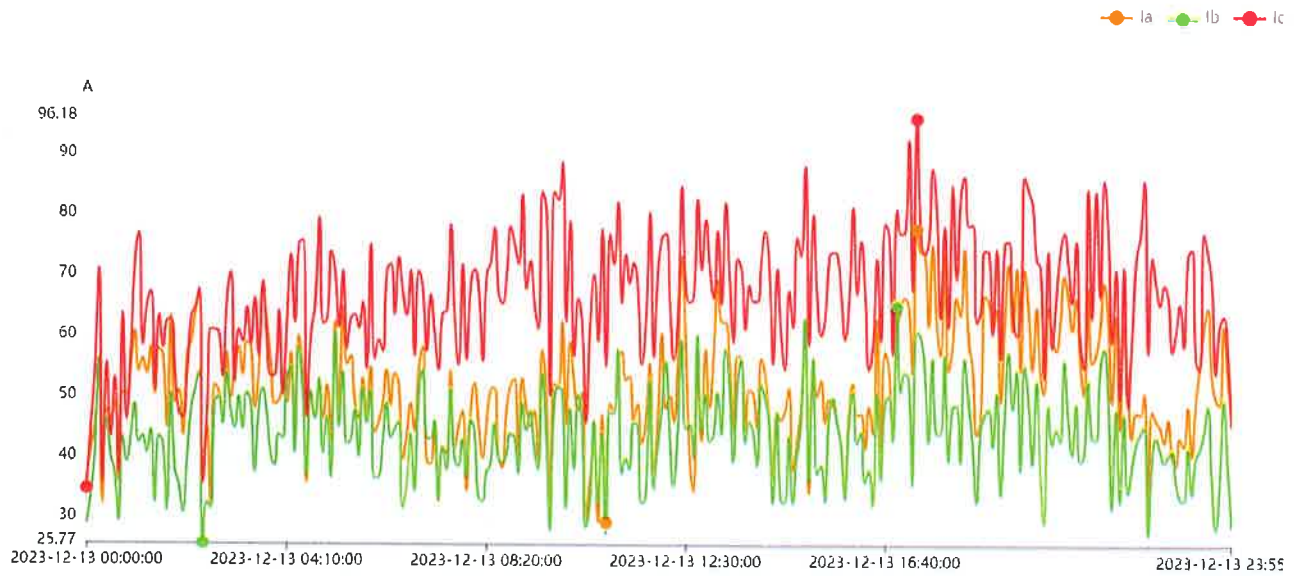


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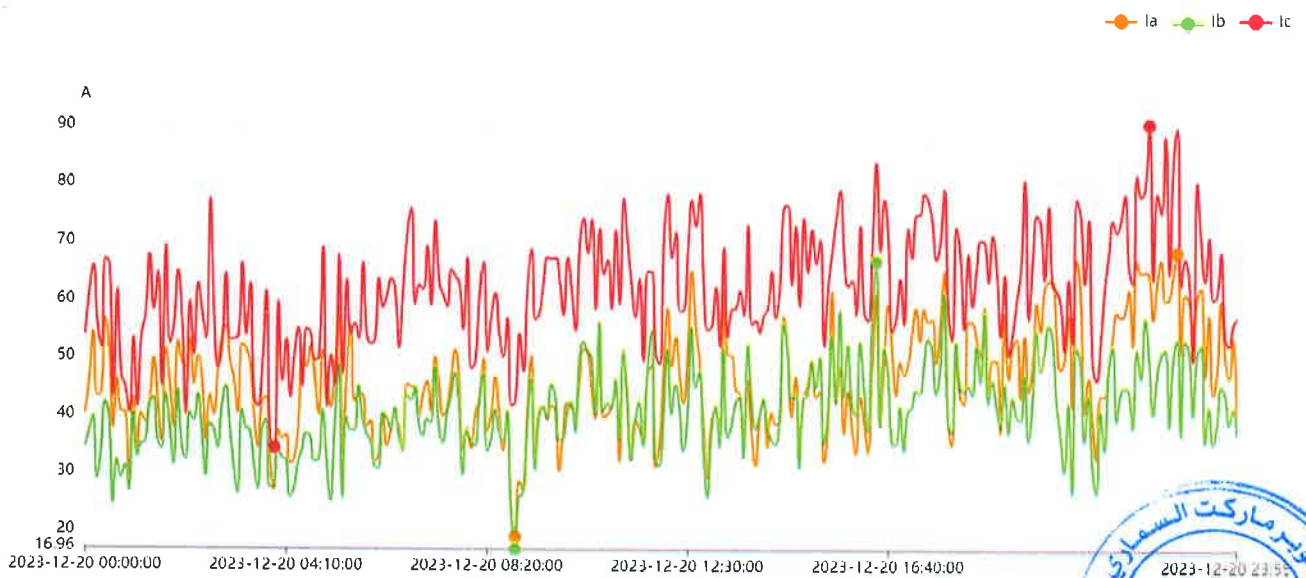


PHASE CURRENT

13/12/2023

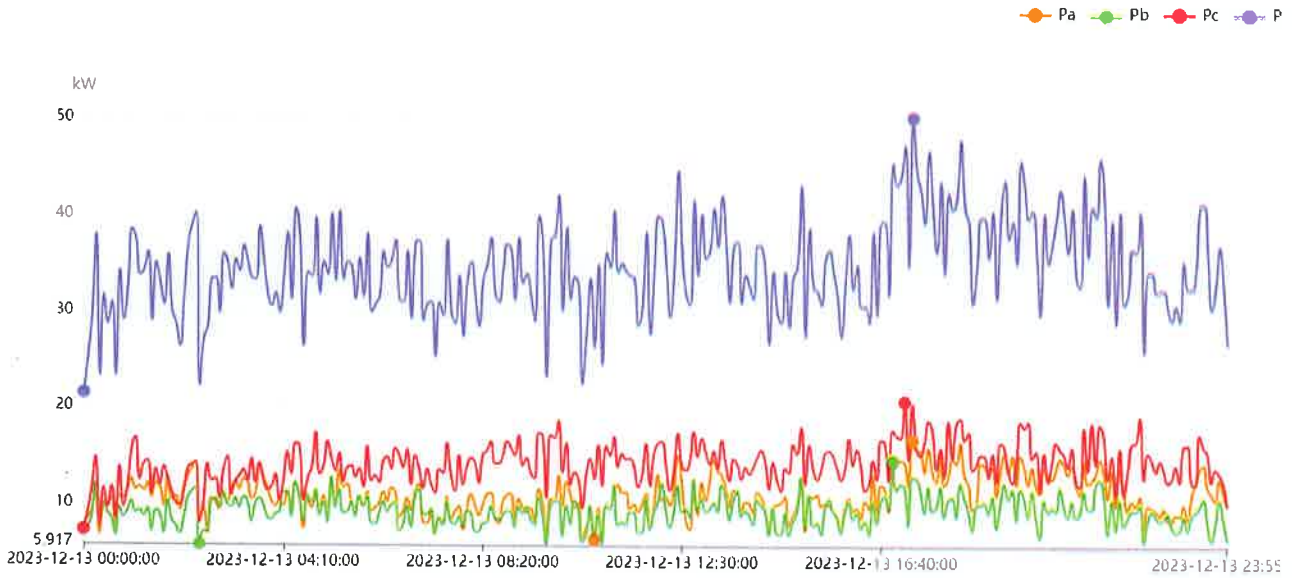


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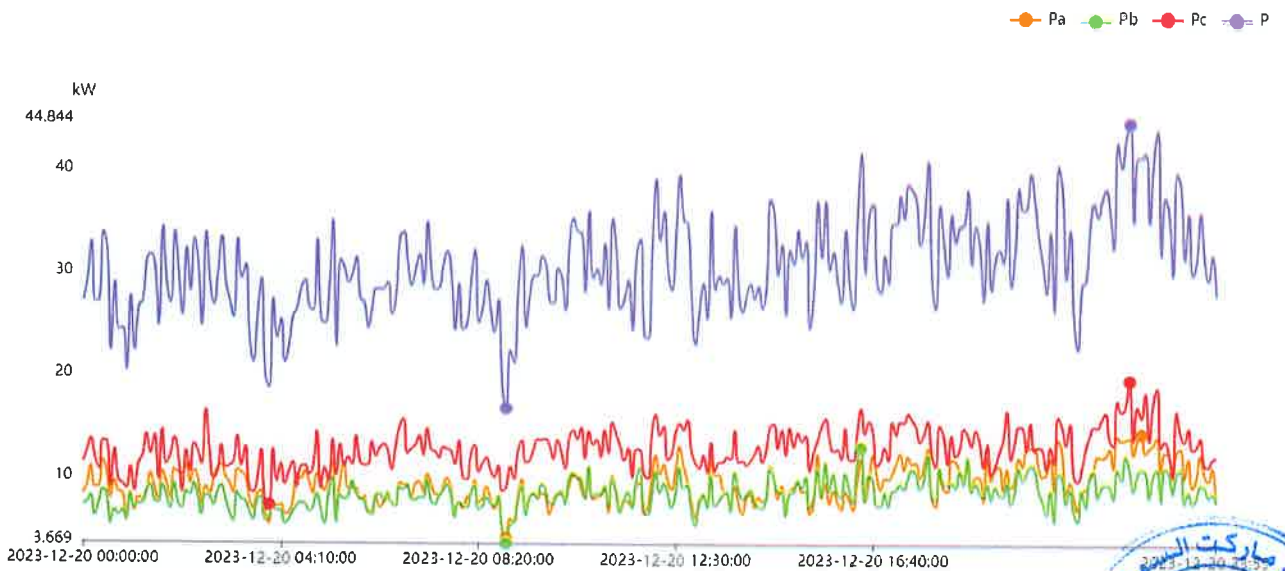


ACTIVE POWER

13/12/2023

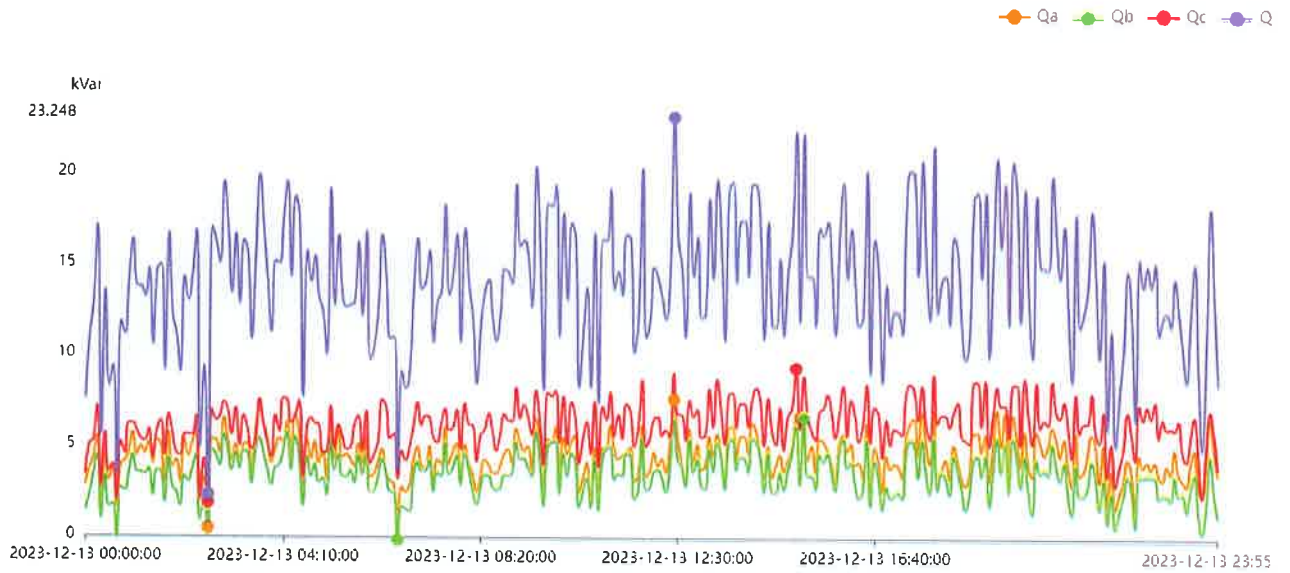


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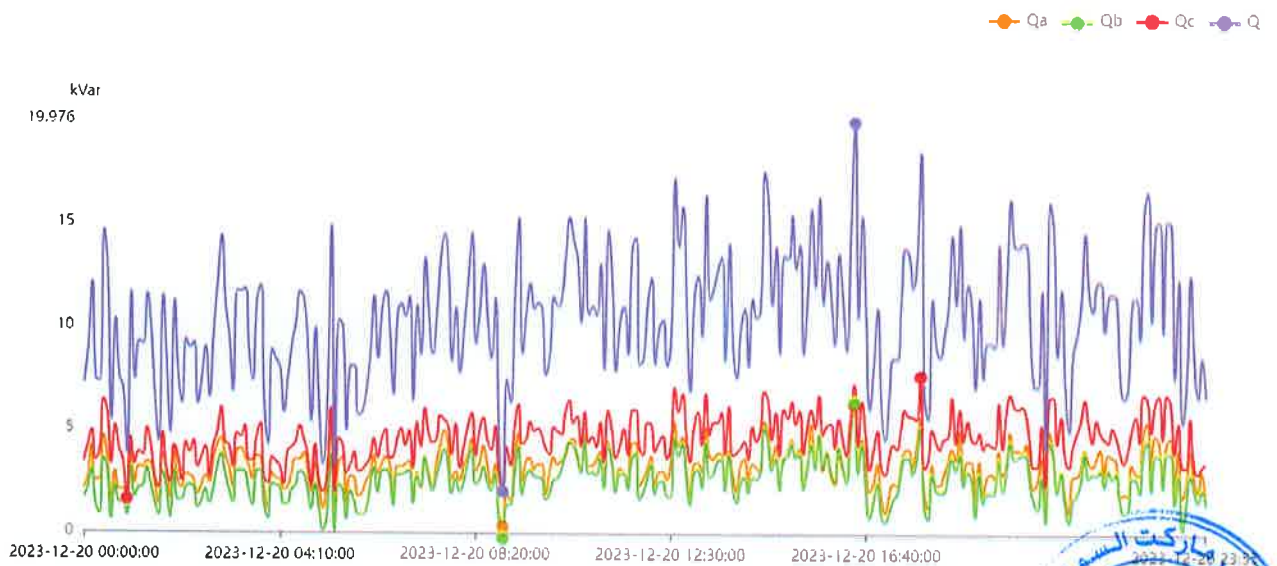


REACTIVE POWER

13/12/2023



20/12/2023



TEST REPORT

Energy used				
Time 00.00-00.00	EP(kW·h)			
20-Dec	745.2			
13-Dec	835			
Diference	-89.8			
%	-10.75			
Reactive power Average				
Time 00.00-00.00	Qa (kVar)	Qb (kVar)	Qc (kVar)	Q (kVar)
20-Dec	3.25	2.75	4.66	10.66
13-Dec	4.42	3.5	6.16	14.08
Diference	-1.17	-0.75	-1.5	-3.42
%	-26.47	-21.43	-24.35	-24.29
Active power Average				
Time 00.00-00.00	Pa (kW)	Pb (kW)	Pc (kW)	P (kW)
20-Dec	9.43	8.56	12.83	30.82
13-Dec	11.03	9.57	14.24	34.84
Diference	-1.60	-1.01	-1.41	-4.02
%	-14.51	-10.55	-9.90	-11.54
Load, Volt Average				
Time 00.00-00.00	Ua (V)	Ub (V)	Uc (V)	
20-Dec	220.53	221.13	220.43	
13-Dec	233.47	234.34	233.63	
Diference	-12.9417	-13.2076	-13.1938	
%	-5.54	-5.64	-5.65	-5.61



Energy used, kWh				Diference	%
10-Dec	843.80	17-Dec	716.80	-127	-15.05
11-Dec	776.80	18-Dec	729.20	-47.6	-6.13
12-Dec	851.00	19-Dec	743.10	-107.9	-12.68
13-Dec	835.00	20-Dec	745.20	-89.8	-10.75
Active power kW		Average			
10-Dec	35.12	17-Dec	29.31	-5.81	-16.55
11-Dec	32.25	18-Dec	30.48	-1.77	-5.48
12-Dec	35.79	19-Dec	30.89	-4.90	-13.69
13-Dec	34.84	20-Dec	30.82	-4.02	-11.54
Reactive power kVAr		Average			
10-Dec	14.41	17-Dec	10.06	-4.35	-30.19
11-Dec	12.54	18-Dec	10.24	-2.30	-18.34
12-Dec	13.93	19-Dec	10.66	-3.27	-23.47
13-Dec	14.08	20-Dec	10.41	-3.67	-26.07

By optimizing active power and reactive power ,we've successfully decreased both kW demand and current, leading to a notable enhancement in equipment longevity. This strategic approach has not only minimized kWh consumption but also ensured sustained operational efficiency, contributing to a more sustainable and cost-effective energy profile.

ECOD reduced consumption on average by 11%

Ecod reduced consumption on average by 11%



THANK YOU