



Site Energy Report - Restaurant

Voltage as a Service (VAAS)TM is an energy-saving service solution for regulating and optimising the voltage supplied to electrical equipment to the optimal level for efficient operation. The purpose of VAAS is to reduce energy consumption, lower electricity bills, and decrease carbon emissions by ensuring that electrical devices operate at their most efficient voltage level.

Executive Summary

Objective	Report on energy usage
Site Location	Site #1027 Melbourne, Victoria, Australia
Facility Type	Food restaurant
Time Period	A 6 month period, from 18 th July 2023 through to 31 st December 2023

Methodology

Data Collection	3 phase energy meter
Communication	4G wireless. 1 minute interval messaging
Sample interval	1 minute interval data, 30 minute integration
Data storage	iStar Cloud Repository
Accuracy	Class 1 accuracy

Summary Statistics

Statistic	Total Energy Usage kWh	Total Energy Savings kWh	Savings %
Mean	5.37	1.22	18.49%
Median	6.37	1.44	
Mode	1.65	0.37	
Minimum	1.26	0.29	
Maximum	12.32	2.80	
Range	11.06	2.51	
Standard Deviation	3.07	0.70	
Sample Variance	9.44	0.49	
Kurtosis	(1.60)	(1.60)	
Skewness	(0.02)	(0.02)	
# Samples Read	7,955	7,955	
Start date	18/7/2023	18/7/2023	
End date	31/12/2023	31/12/2023	
Days	166.83	166.83	
Total (Period)	42,710	9,689	
Total (Annualised)	93,442	21,197	
Maximum Demand (kW)	24.65		

Figure 1 Energy Usage – Daily Total - 6 month period

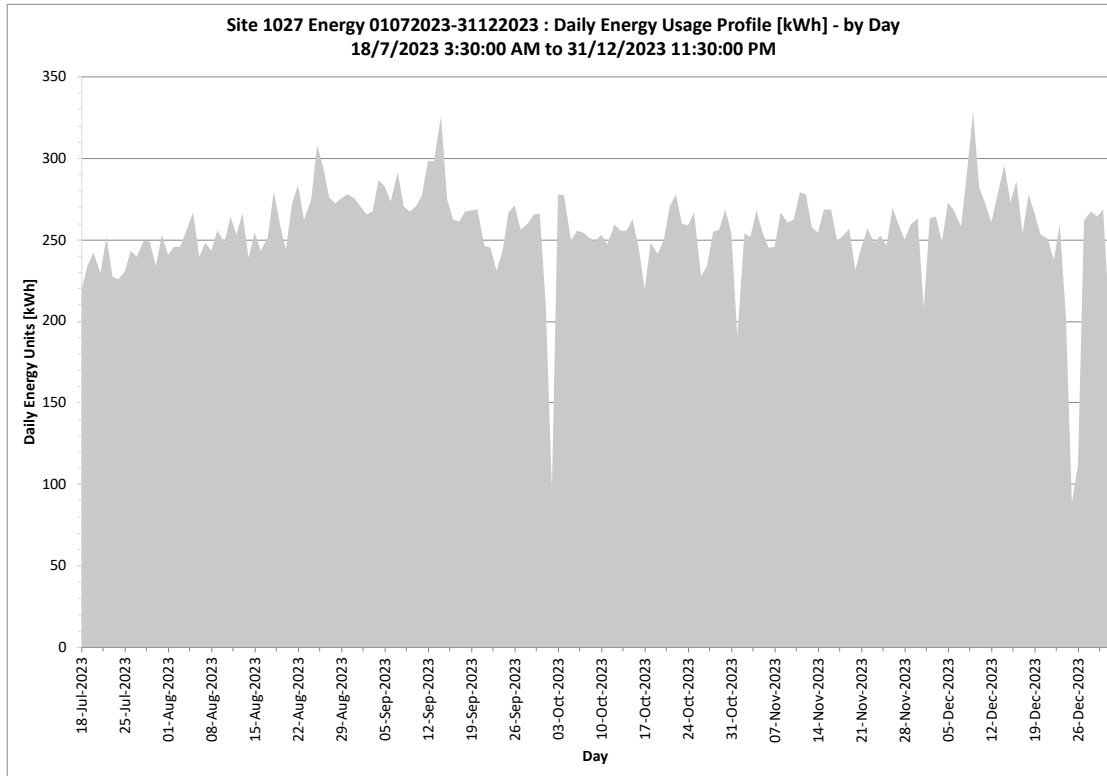


Figure 2 Energy Usage – 30 minute interval - 6 month period

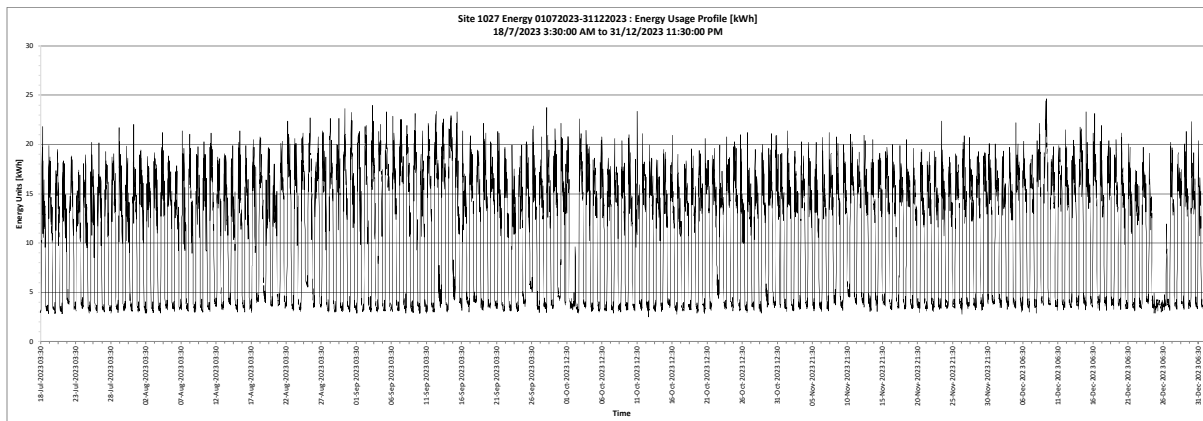


Figure 3 Energy Usage & VO Savings – Average Time of Day – 30 minute interval - 6 month period

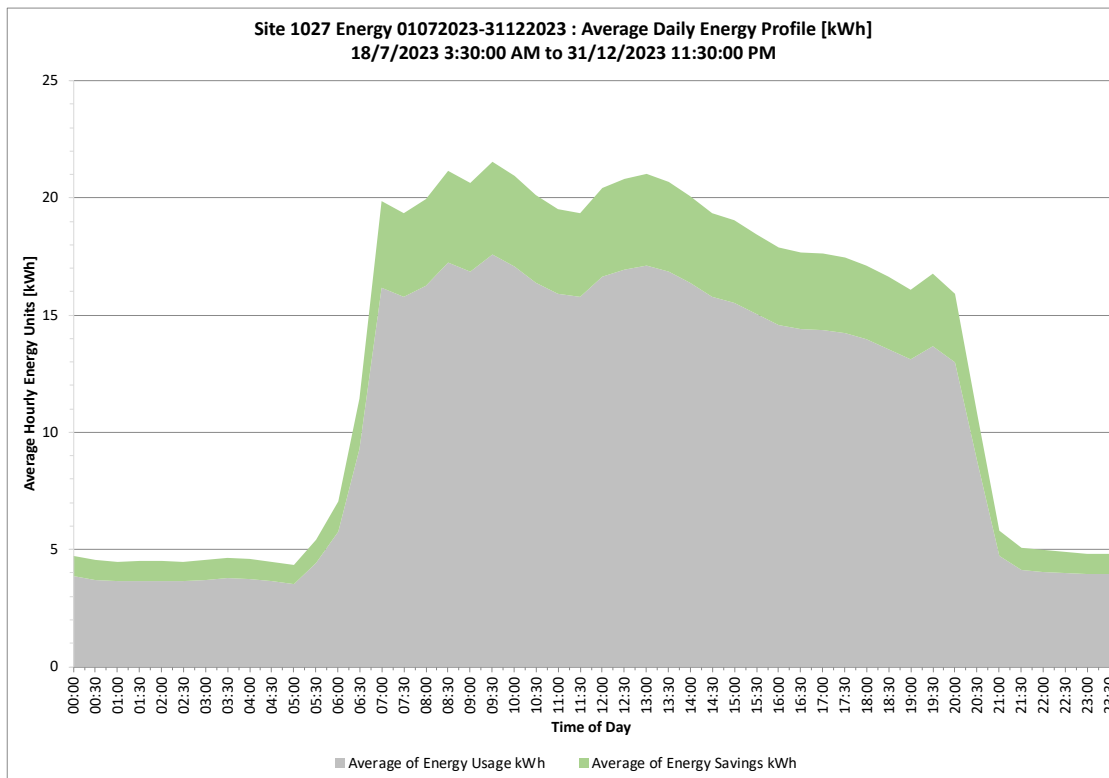


Figure 4 Energy Usage – By Average Time of Day – By Week – 30 minute interval - 6 month period

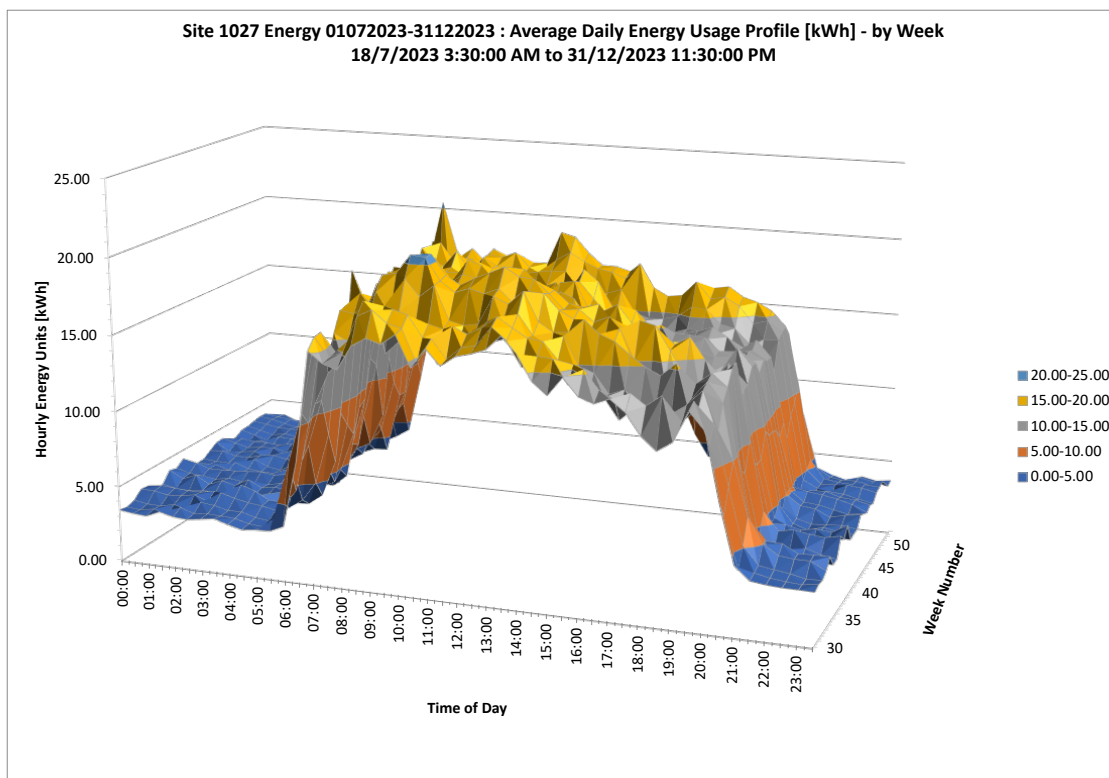


Figure 5 Energy Usage – By Time of Day – By Day – 30 minute interval - 6 month period

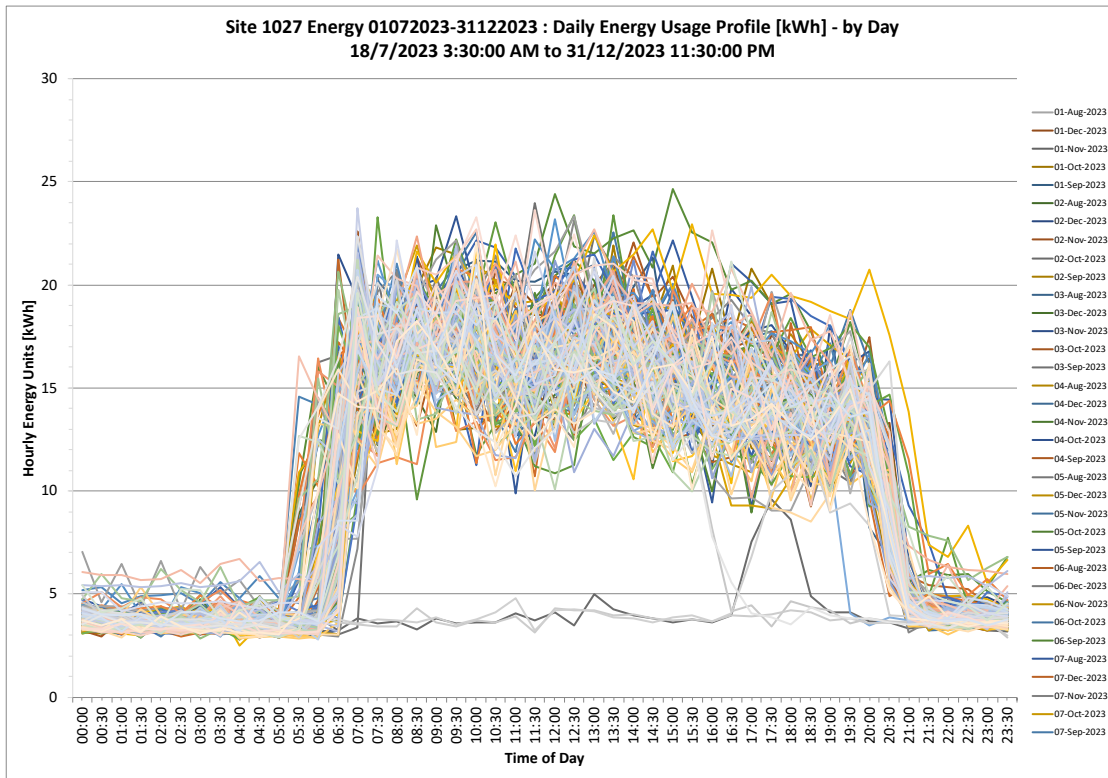


Figure 6 Energy Usage – By Time of Day – By Day of Week – 30 minute interval - 6 month period

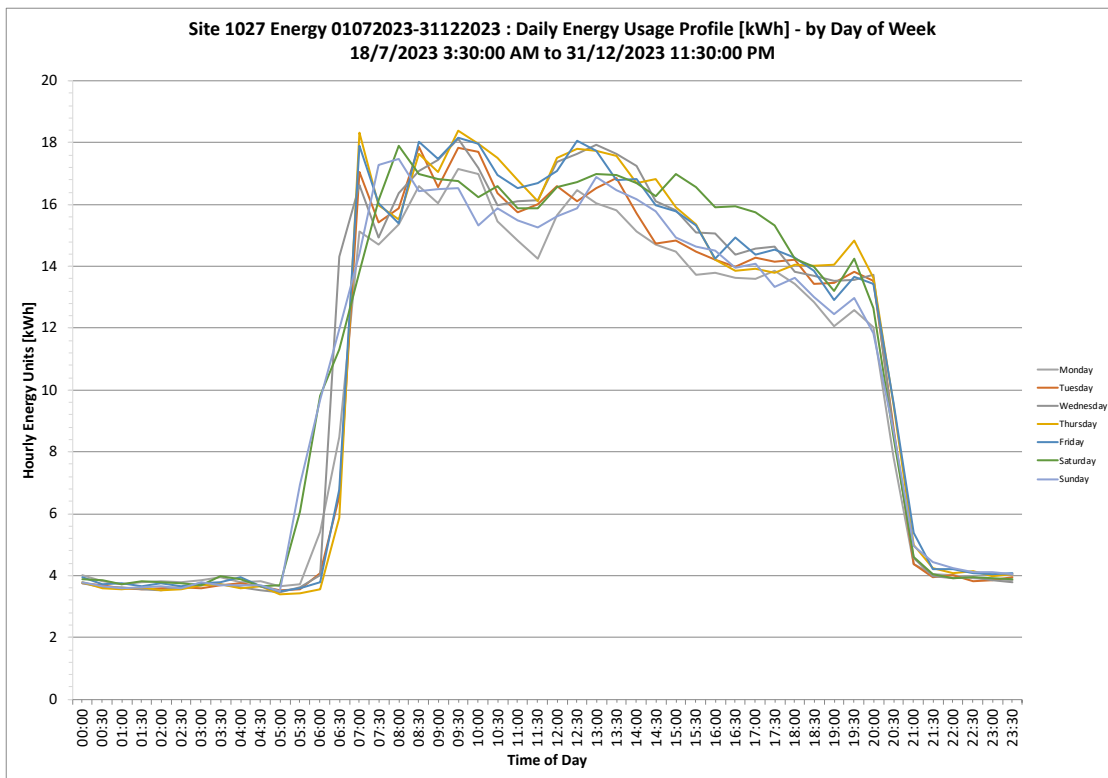


Figure 7 Energy Usage – By Time of Day – By Week – 30 minute interval - 6 month period

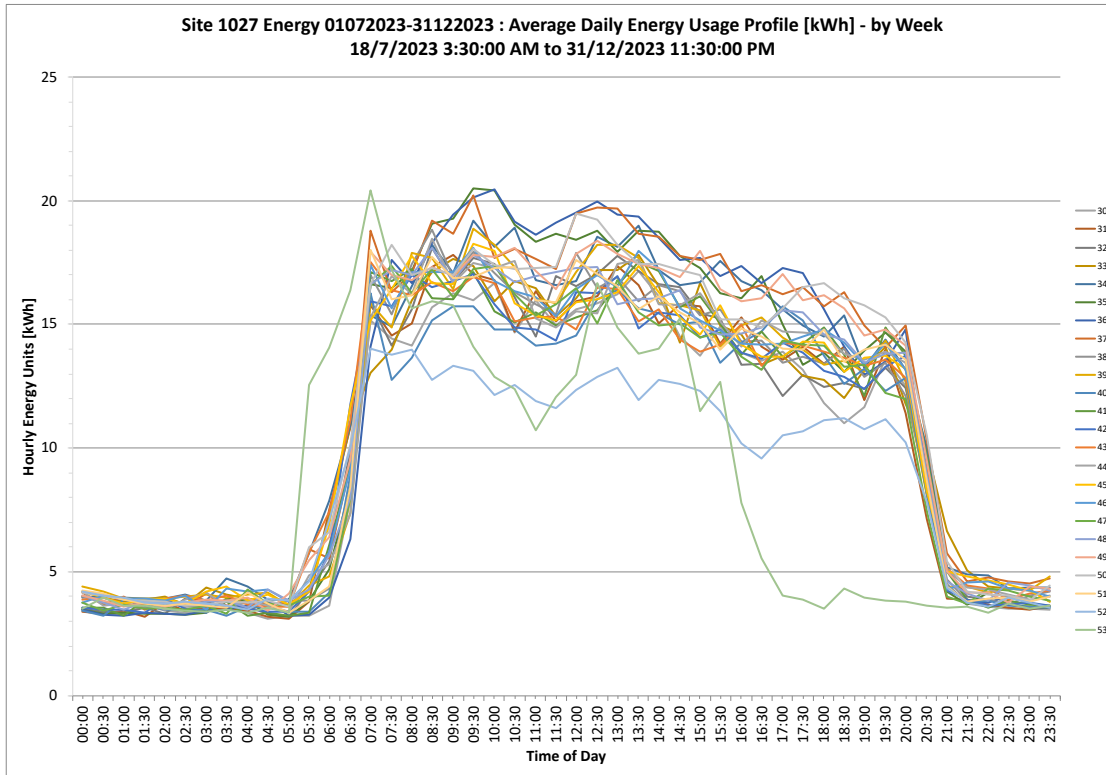


Figure 8 Energy Usage – By Time of Day – By Month – 30 minute interval - 6 month period

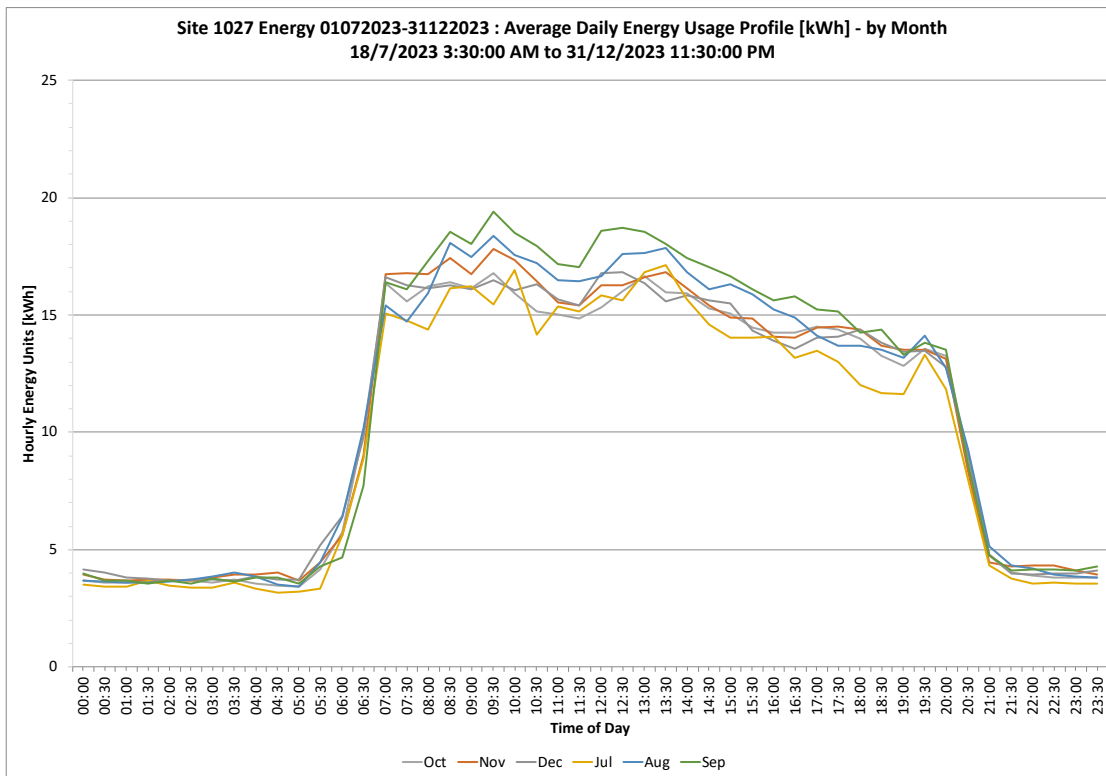


Figure 9 Energy Usage – Totals - By Day of Week - 6 month period

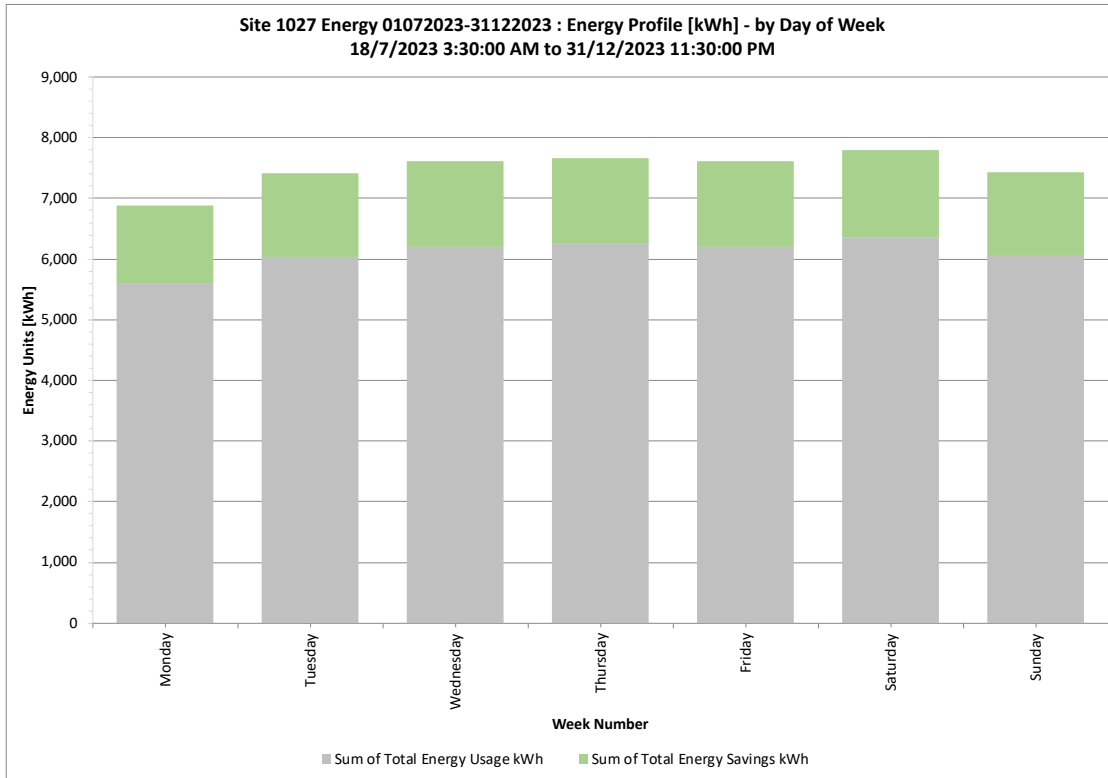


Figure 10 Energy Usage – Daily Average - By Month - 6 month period

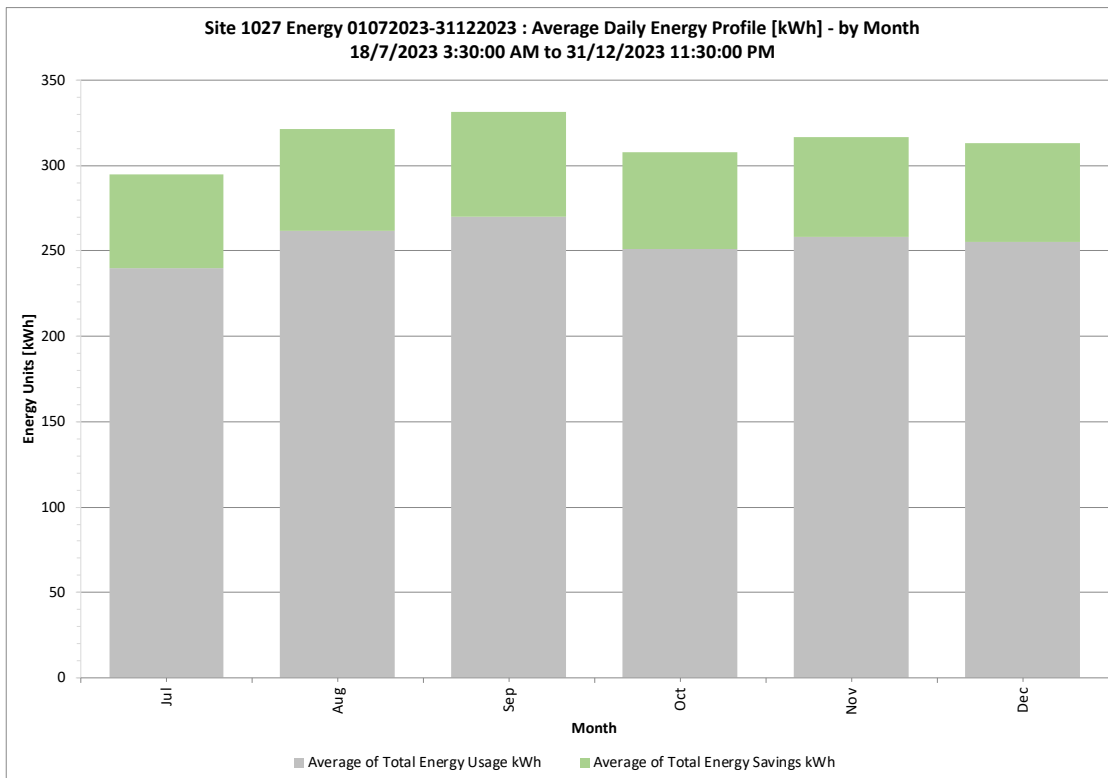
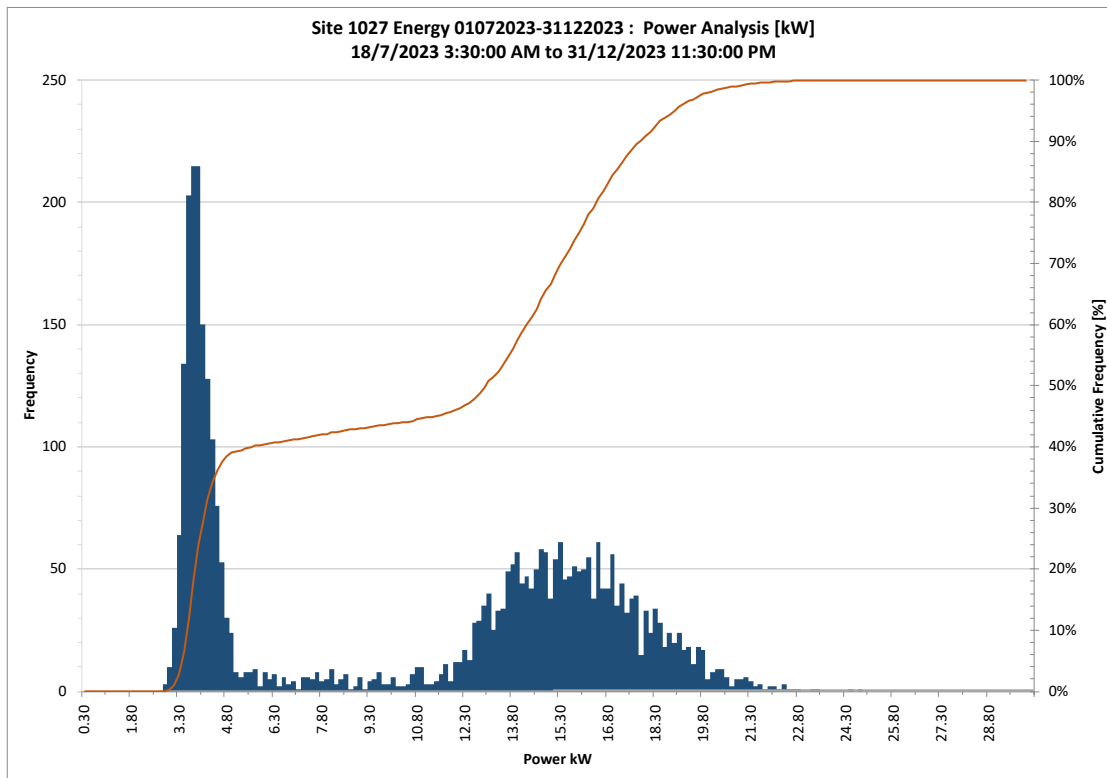


Figure 11 Energy Usage – Histogram - 30 minute interval - 6 month period



Conclusion

Voltage Optimisation offers both immediate and long-term financial benefits while aligning with broader strategic goals related to sustainability, operational efficiency, and risk management. These benefits make VO an attractive proposition for businesses looking to reduce energy costs, enhance their environmental credentials, and improve their overall competitiveness.

VAAS can provide a very useful contribution to a company’s plans to meet its Carbon emission targets, as well as reporting requirements. VAAS provides the right voltage to electrical equipment, ensuring efficiency, cost savings, environmental benefits and performance reporting while maintaining equipment performance and longevity.

For further information, contact us at sales@vaasco.net

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