Energy Consumption Report for SULAY

Reporting Period: 24 hours

This comprehensive report provides detailed insights into the energy consumption patterns and efficiency metrics for **SULAY**. The data covers the specified reporting period, highlighting key performance indicators and offering actionable insights.

The data center has demonstrated optimal energy efficiency with minimal wastage.

Energy Consumption Report Summary for SULAY

Overall Performance Score: 79.12

Top 5 Devices Utilization

The table below highlights the top devices based on their power consumption, bandwidth utilization, and overall efficiency metrics. These devices play a critical role in the site's energy consumption profile, and understanding their performance can help identify areas for optimization and efficiency improvements.

Device Name	IP Address	Total Power	Traffic Speed	PCR	CO2 Emissions
SULY-ELEF-CI-COM-431	172.8.16.77	3.53 kW	965.02 GPS	0.0037	1.43 kgs
SULY-ELEF-CI-COM-415	172.8.160.70	3.52 kW	857.58 GPS	0.0041	1.42 kgs
SULY-ELEF-CI-COM-429	172.8.16.66	3.51 kW	913.34 GPS	0.0038	1.42 kgs
SULY-ELEF-CI-COM-304	172.8.144.81	3.5 kW	966.85 GPS	0.0036	1.41 kgs
SULY-ELEF-CI-COM-315	172.8.160.76	3.5 kW	1094.19 GPS	0.0032	1.41 kgs

Bottom 5 Devices Utilization

The table below highlights the bottom devices based on their power consumption, bandwidth utilization, and overall efficiency metrics. These devices play a critical role in the site's energy consumption profile, and understanding their performance can help identify areas for optimization and efficiency improvements.

Device Name	IP Address	Total Power	Traffic Speed	PCR	CO2 Emissions
SULY-EAPC-CI-COM-003	172.8.0.3	3.44 kW	927.06 GPS	0.0037	1.39 kgs
R_167_SW_01	10.200.97.72	3.44 kW	912.79 GPS	0.0038	1.39 kgs
SULY-ELEF-CI-COM-432	172.8.160.75	3.43 kW	1099.02 GPS	0.0031	1.39 kgs
R_384	169.254.2.2	3.41 kW	874.29 GPS	0.0039	1.38 kgs
SULY-ELEF-CI-COM-302	172.8.144.83	3.4 kW	786.75 GPS	0.0043	1.38 kgs

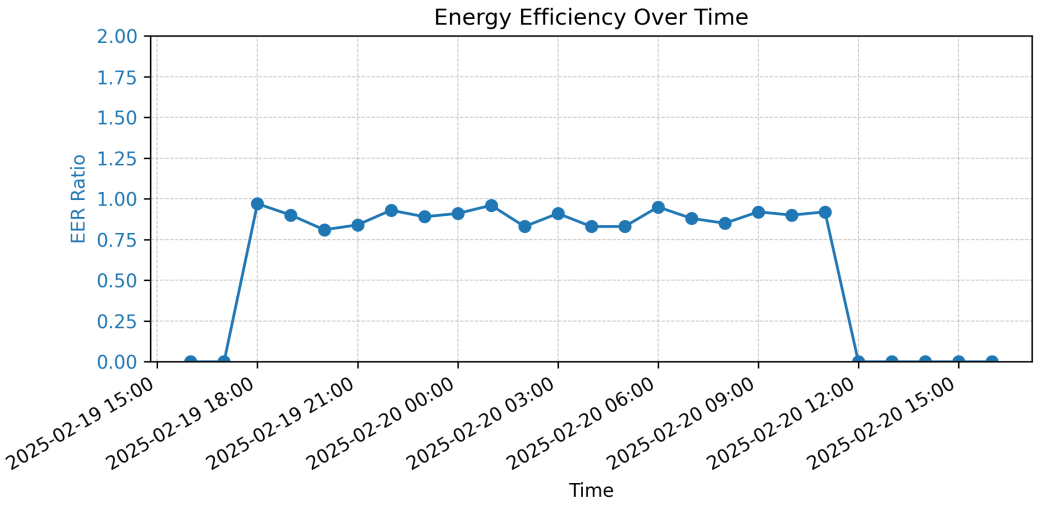
Average Energy Efficiency Metrics

The above gauges represent the average Power Usage Effectiveness (PUE) and Energy Efficiency Ratio (EER) for the reporting period. These metrics are crucial indicators of overall site performance.

Energy Efficiency Over Time

The Energy Efficiency Ratio (EER) indicates the ratio of cooling output to the electrical energy input. Higher EER values signify better energy efficiency. Below is the trend of

EER over the reporting period:



Several data points showed low energy efficiency (EER < 0.5). Notable underperforming periods include:

-2025-02-19 16:00 with an EER of 0.00

-2025-02-19 17:00 with an EER of 0.00

-2025-02-20 12:00 with an EER of 0.00

-2025-02-20 13:00 with an EER of 0.00

-2025-02-20 14:00 with an EER of 0.00

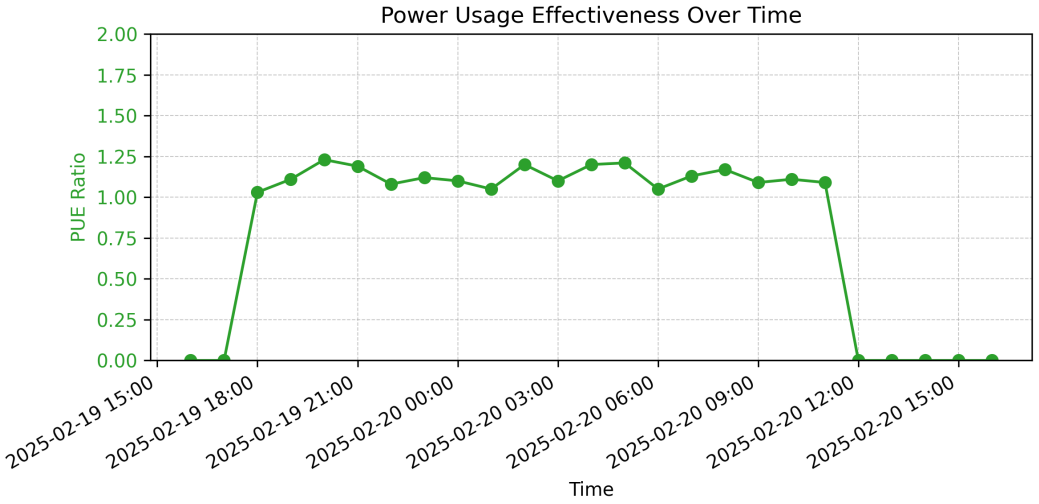
-2025-02-20 15:00 with an EER of 0.00

-2025-02-20 16:00 with an EER of 0.00

The average EER of 0.64 indicates **moderate energy efficiency with potential for improvement.**

Power Utilization Over Time

Power Usage Effectiveness (PUE) measures the total energy consumption compared to the energy used solely by IT equipment. Lower PUE values represent more efficient energy use. The graph below shows the PUE trend over the reporting period:



No significant periods of poor power efficiency detected.

Conclusion: The average PUE of 0.81 indicates **excellent energy efficiency.**

SULAY's Rack wise Utilization

The following table provides an overview of rack performance, showcasing power consumption, bandwidth utilization, and efficiency metrics. Understanding these parameters helps in identifying optimization opportunities and enhancing overall operational efficiency.

Rack Name	Building	Site Name	Number of Devices	EER	PUE	Power Input (kW)	Data Traffic (GB)	PCR
L0-AF-19		SULAY	20	0.88	0.14	659.26	368390.64	1.7896

Overall Conclusion: The site has demonstrated optimal performance across the board.