Safecility

Commercial Property with Power Surge Problems

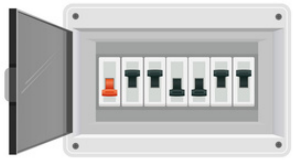
Energy Monitoring Use Case

USER

Electrical contractor or in house electrical team.

THE PROBLEM

A commercial forecourt is experiencing regular power failure on a single phase. Their site includes a showroom with lighting, staff kitchen facilities (microwaves, kettles etc) and a forecourt with power washing as well as other car maintenance facilities. A fuse on one of the phases keeps blowing repeatedly and the electrician called in to repair the problem is unable to accurately identify the cause of the issue.



SAFECILITY PRODUCT

The Vutility HotDrop energy monitor powered by Safecility's software platform.

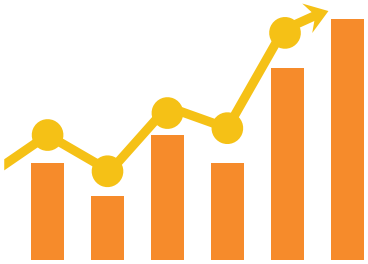
- Wireless easy to install energy monitors suitable for single and three phase power supply.
- Usage data remotely collected and streamed to the cloud
- Software platform gives real time usage analytics in an easy to view graphical format
- Energy monitors are easily uninstalled for use in a different location
- Analytics help identify load balancing issues, reduce waste, save costs and improve operational efficiency.

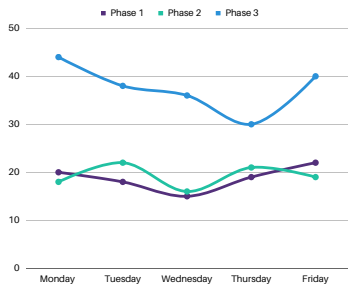
THE SOLUTION

Safecility's wireless energy monitoring sensors are installed on each of the three phases feeding the forecourt. Normal activities were resumed and amperage peaks and troughs were monitored.

The electrician identified there was increased amperage on one of the phases caused by a loading issue leading to repeated power failure.

Realtime energy usage analytics gained from the energy monitors showed the forecourt was not using any energy at night. A decision was made to switch to storage heating that would heat the building at night, on a cheaper rate, freeing up capacity during day time hours and preventing the loading issue.





WEEKLY USAGE ACROSS EACH PHASE

Usage analytics across the three phases found phase three was overloaded.

Identifying load balancing issues and freeing up capacity is easy using real time analytics from the Safecility platform.