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We Specialise



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Case Study Energy Monitoring

Introduction

Understanding the load profile of your electrical systems is vitally important in understanding power systems capabilities and can assist in identifying energy usage and opportunities for optimisation.

Where expansion of an existing system is required, it is crucial that a load study is carried out to ascertain whether the power supplies on site are sufficient.

Background

Inspec Systems recently performed an energy survey including energy monitoring for a large blue chip pharmaceuticals company considering site expansion. Understanding the current load profile and predicted additional demand was crucial in determining the feasibility of the new project.

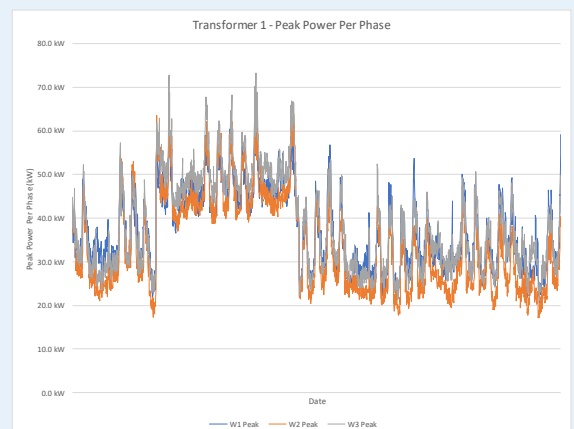
Data Logging

Data loggers were fitted to the secondary side of five 11 kV/415 V transformers around the client's site. These loggers measured:

- Peak and average current per phase
- Peak and average power per phase
- Peak and average power 3 phase
- Power factor per phase

The loggers utilise split Rogowski coils clipped around each phase conductor.

This does not normally require any isolation or down time and can be carried quickly, safely and with minimum disruption.





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Analysis and Reporting

Whilst fitting the loggers and collecting the data is relatively straight forward, interpreting the output requires careful and detailed analysis by professional engineers.

Key outputs from the analysis include:

- Peak loading
- Mean loading
- Phase balance
- Available power
- Peak reduction opportunities

Consideration of the above is given in a detailed report allowing decision making for future improvements and projects.

What Next?

With over 20 years of experience, Inspec Systems have the knowledge, experience, and competency to deliver projects to your requirements.

Why not give us a call and speak to our team to see how we can help you meet your unique and specific needs.

Contact Us

From concept to completion or at any stage we have the skills, capability, judgement and drive to support your projects.



Contact Us

Tel: 01482 898 080

Email: info@inspecsystems.co.uk

Web: www.inspecsystems.co.uk

Inspec Systems Limited
1st Floor Sidings House
Sidings Business Park
Freightliner Road
Hull