

## Electrical Power Monitoring

### Q What exactly is an EPMS?

- A An Electrical Power Monitoring System provides the means to measure and monitor the power usage, quality and status of the entire system.

### Q What external factors are making it more important to increase the level of management of power systems?

- A Lack of power resource, together with the increase in power demand has led to rising energy costs. The 'green agenda' is now a significant part of corporate responsibility, with the ability to demonstrate power efficiency gaining increasing importance.

### Q What does Vigilance comprise of? Is it just a software package?

- A No, Vigilance is a modular suite of both software and hardware options, giving the end user the freedom of choice to select only what they need.

### *“What makes Vigilance different to other power monitoring systems?”*

*“Vigilance provides a new open framework with a modular approach / open protocol platform that does not tie you irrevocably to a particular system supplier or equipment manufacturer.*

*Our intelligently designed and priced modular solutions enable integration with your existing equipment / hardware and can easily expand as your requirements change or grow. With a single, holistic view (for single or multi-sites) managing your power consumption has never been easier.”*

### Q Are there any annual license fees to pay?

- A No, license fees are included in the initial cost. From this point onwards there are no annual software or circuit license fees.

### *“Why is there a need for an EPMS, in addition to a BMS?”*

*“Power Monitoring data has become more and more complex, and most BMS systems cannot handle this data, they have generally been involved with only analog and digital signals.”*

### Q Is Vigilance capable of interfacing to and providing common alarms to BMS / SCADA?

- A Yes, with predetermined / adjustable threshold values, a common alarm /relay contact arrangement can be provided to any BMS/SCADA.

*“Vigilance provides a new approach combining simplicity, innovation and value for money, enabling you to monitor energy efficiency and achieve your energy reduction goals.”*

### Q Is it necessary to purchase all Vigilance hardware, or can existing legacy equipment be utilized?

- A Vigilance can communicate with almost any existing hardware e.g. Meters, provided it utilizes an industry standard network protocol like Modbus. This avoids the need for expensive replacement of any existing equipment. This is of particular importance to clients with different equipment over multi-sites.

### Q What hardware can be included?

- A Multi-function meters, power analyzers and energy meters (with revenue approval on certain models), final / branch circuit monitoring, I/O modules for breaker status reporting, Ethernet network switches, continuous thermal monitoring & intelligent power strips.

## FAQ's

### Q What is the specification for Vigilance meters?

- A The metering ranges are comparable in performance specification to the main brand leading models – but prices are significantly more competitive.

### Q What happens to the data if there is a loss of power?

- A All data is backed up routinely on the server. In addition, the last number of collection points are battery backed on local processors that shut down after performing a controlled backup in the event of a power failure. So data is not lost!

### *“How does Vigilance pricing compare to other systems?”*

*“Vigilance is one of the most cost effective and comprehensive EPMS solutions available.”*

***“With Vigilance you can choose the components for your power monitoring system with confidence, while we design and build an effective solution that will pay dividends for years to come”***

### Q Does the system need to be shutdown or re-booted to implement any changes / additions?

- A No, unlike most other system, Vigilance enables revisions to be implemented on a ‘live’ system.

### Q Does Vigilance require a separate network?

- A No, the client can select to operate over an existing IT infrastructure or a separate managed network can be designed for facilities operations.

### *“What is the importance of power monitoring?”*

- *Power Confidence –visibility into the health and status of power systems.*
- *Power Condition / Performance – reveal existing or imminent issues, quickly diagnosing power problems.*
- *Energy Efficiency –improve efficiency, minimise waste & reduce overall consumption (PUE)*
- *Energy billing–enable accurate utility billings / cost allocation*

### Q Are local / remote & multi-site view of the EPMS possible?

- A Yes, each site can be viewed locally or added to remote viewing over the Internet (ability to add sites nationally or globally) which means energy usage & system health and performance can be viewed anytime, anywhere.

### Q Can changes be made to the system by the end-user without involvement of the supplier/installer?

- A Yes, construction of our databases are fully open, meaning after training, the end user will be able to independently carry out system engineering, making additions / revisions to the system as necessary.

### *“What sort of initial commitment is required to evaluate the suitability of a Vigilance EPMS solution?”*

*“Vigilance can be rolled out and implemented progressively –it can commence with a small pilot program for initial evaluation purposes, and then be subsequently expanded as required.”*