

Energy Monitoring Data Sheet

The Challenge



Limited visibility of energy utilization across machine, production lines, etc

- Difficulty in planning energy efficiencies and reporting on sustainability objectives.
- Existing energy monitoring solutions can take a one size fits all approach (e.g. sensors that report data every minute do not work for machinery that has 'spikey' usage.)
- Mandated reporting on carbon usage to measure environmental impact.
- Employee engagement, with direct visibility of usage and environmental impact, is increasingly important for recruitment and involving staff in efficiency initiatives.
- With visibility, the ROI for efficiencies can be measured and business cases built, for instance for replacement of older machinery.

What SiYtE can offer



We are sensor agnostic and employ a phased approach to ensure our customers fully understand which monitoring solution best suits their energy profile and the potential benefits before making a commitment.

Sustainability Reporting Dashboard

- Reporting on energy usage across plant, lines and machines
- Translation of energy usage to daily, weekly and monthly costs and CO2 impact
- Real time energy usage visibility
- Energy usage trending and comparison charts

Energy Utilisation Insights

- Dashboards and visibility to engage staff on energy saving practices
- Insights on which machines, jobs, lines and shifts are the most efficient

Real-time Alerts

- On excessive energy so that staff can address issues quickly
- On factory equipment that has been left on, even when jobs are finished

Phased Approach











Phase 1: Short Term Energy Logging for Energy Visibility & Insights Report



- Install energy logger to collect real time usage data for 1 week / 1 machine (or multi-week, multi-machine)
- Develop Energy Visibility & Insights Report:
- Logging frequency requirement to inform sensor and connectivity choice
- Energy usage patterns
- Potential for energy insights

Figure 1 – Fluke 1732 and 1724 Three-Phase Electrical Energy Loggers

Phase 2: Energy Monitoring

- Deploy a sensor and connectivity network
- Reporting of energy usage per machine over time

Figure 2 – EEM-MA371-2-Measuring instrument



Phase 3: Energy Insights

- Energy insights displayed in financial and carbon impact terms
- Integration into job/tasks systems
- Energy usage comparison enabled between jobs, machines, lines and teams



Figure 3 – SiYtE dashboard showing energy insights



