

CASE STUDY

Transforming Manufacturing Site operations with PEAK

Micro-Electronics

CIM's building analytics technology and world-class customer support team is helping Fortune 500 Complex Manufacturing facilities to rapidly transform facility operations driving efficiency, sustainability and economic benefits.

A world-renowned Electronics manufacturer partnered with CIM to more effectively manage critical plant and equipment. The PEAK Platform was deployed in 3 sites within a 12 month period, and has delivered energy cost reductions, CO2 savings, improved uptime, increased reliability, identified safety concerns and improved overall site operations.



€204,372 of energy savings to date



30,686 monitored points



5,105 rules deployed



2,294 faults identified



Challenge

This manufacturer operates numerous sites producing electronic hardware, including micro hardware in strictly controlled environments. The Facilities team rely heavily on third parties to support their operation, and found they were operating quite reactively to site and equipment issues driving operational cost upwards.

“ We strived for pro-active control, to stay ahead of issues and operate more efficiently. Pressure was constantly on! ”

– Site Facilities Manager

KEY CHALLENGES:

- Difficulty accessing data from multiple, disparate sources (eg. BMS, EFT energy meters, main meter etc)
- Being unable to prioritise issues led to daily operational planning challenges and reactive maintenance regimes, risking uptime of critical equipment
- Lack of visibility on energy data made identifying cost improvements and energy savings difficult
- Maximising thermal compliance of all working areas was key

Objectives

Based on these challenges, the objectives for CIM were clear.

- Systems reporting needed to be streamlined. Data needed to be presented in an accessible and meaningful format, empowering the Facilities team to take required actions
- Energy Consumption needed to be managed, problem areas identified and savings realised as quickly as possible.
- Overall Operational costs needed to reduce, Operators and Assets needed to be more efficient, and Capex Planning & decisions more accessible.

Solutions

Large complex manufacturing sites generate a wealth of data that when unlocked by a proven building analytics software, can help to drive better decision making and improve operational performance. To harness these opportunities within its own portfolio, this leading micro-electronics manufacturer engaged CIM as its preferred building analytics provider to help manage and improve the operational performance of its teams and sites. The Facilities and Site Management teams now use the PEAK platform to take a smarter, data-driven approach to building operations, in partnership with CIM's customer success team of remote engineering experts, who provide the right advice on building tuning, optimisation, maintenance and CAPEX planning

“ The overall information exchange within PEAK is fantastic, and the engagement with the CIM team keeps us on track ”

– Facility Manager



Key Results:

- ➔ **Improved visibility and control** – In 12 months, PEAK proactively identified more than 440 faults and tuning opportunities, providing diagnosis and resolution insights, preventing downtime, ensuring thermal compliance and improving operational efficiency
- ➔ **Energy Savings** – PEAK generated 490kg of CO2 realised energy savings and demand reductions across the 3 sites in 12 months, reducing peak demand on one building alone by 40%
- ➔ **Contractor Control** – PEAK improved Contractor workflows as the Facilities Managers were able to ensure issues were resolved as required and in line with the SLA (Service Level Agreement)

“ We can now guarantee thermal compliance in all working areas since the deployment of PEAK, and present this using CIM PEAK Dashboards. This was hugely important as we managed full return of staff to site post pandemic. ”

– Site Facilities Manager



Building intelligence
smart



Machine learning
simple



Technical engineering support
transparent

PEAK

CIM's award-winning PEAK platform integrates building intelligence, machine learning and technical engineering support to improve efficiency, sustainability and compliance across micro electronic manufacturing sites. PEAK was recently recognised for its contribution to sustainability at the Analytics and AI Awards, winning Sustainability Project of the Year.

- ✓ Simplifies and accelerates the end-to-end process of fault detection, diagnosis and problem resolution
- ✓ Automatically collects and monitors live building data, and leverages algorithms to pinpoint, highlight and prioritise inefficiencies
- ✓ Facilitates a collaborative workflow with stakeholders to quickly resolve issues
- ✓ Provides visibility and insight to optimise site and portfolio performance.

We look forward to hearing from you.

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